WISCONSIN CANCER INCIDENCE AND MORTALITY

1999

May 2002

Bureau of Health Information
Division of Health Care Financing
Wisconsin Department of Health and Family Services

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| May 2002. | | | | |
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Foreword

Wisconsin Cancer Incidence and Mortality, 1999 presents summary information about Wisconsin cancer incidence (new cancer cases) and mortality (deaths due to cancer) that occurred in 1999. The Wisconsin Cancer Reporting System (WCRS), part of the Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services, collects reports of all newly diagnosed Wisconsin resident cancer cases from hospitals, clinics and physician offices. This report would not be possible without the conscientious reporting of these sources.

Since 1976, WCRS has collected cancer incidence data on Wisconsin residents as mandated by section 255.04, Wisconsin Statutes. All invasive and noninvasive malignant tumors, except basal and squamous cell carcinomas of the skin, are reportable to WCRS. Starting in 1994, WCRS entered into a cooperative agreement with the U.S. Centers for Disease Control and Prevention (CDC) and became part of the National Program of Cancer Registries (NPCR).

An important change in the 1999 report is that cancer rates were calculated using the U.S. Census Bureau's Year 2000 population standard. As mandated by CDC, beginning with 1999 cancer incidence and mortality data, all rates were age-adjusted to this population. Compared to the rates adjusted using the previous standard (1970 U.S. standard million population), cancer rates *appear* higher for most types of cancer due to changes in the age distribution of the U.S. population between 1970 and 2000. In actuality, the number of 1999 cancer deaths, for example, has decreased from earlier years. Implications of the new population standard for Wisconsin cancer rates are discussed on page 6. The Year 2000 population standard and its impact on Wisconsin cancer rates are discussed in greater detail in the Technical Notes on page 52.

This report emphasizes invasive cancer data. Supplemental tables provide incidence data for those readers interested in the total number of cases (including noninvasive cancers).

Wisconsin Cancer Incidence and Mortality, 1999 was produced by the Department of Health and Family Services. WCRS staff collected, edited and compiled the data used in this report. Mary Foote and Laura Stephenson prepared the text. Laura Stephenson produced the tables and graphs. The report was edited by Patricia Nametz, reviewed by Peter Rumm, MD, Division of Public Health, and Patrick Remington, MD, University of Wisconsin Comprehensive Cancer Center, and prepared under the supervision of Judith Nugent, Person-Level Data and Analysis Section Chief. Overall direction was provided by Sandra Breitborde, Director, Bureau of Health Information.

This publication, as well as information about WCRS operations and other annual and special reports, is available at the Department's Web site (see address below). Requests for additional cancer incidence data may be addressed to:

Cancer Reporting System, Bureau of Health Information
Division of Health Care Financing
Wisconsin Department of Health and Family Services
P.O. Box 309
Madison WI 53701-0309
(608) 266-8926
http://www.dhfs.state.wi.us/wcrs/

Key Findings

Demographic characteristics of invasive cancer incidence

- There were 23,920 newly diagnosed cancer cases in 1999 among Wisconsin residents, compared with 23,537 in 1998.
- In 1999, 60 percent of the reported cancers were diagnosed in people age 65 or older.
- In 1999, the most frequently reported cancers for Wisconsin women were breast (33%), colorectal (13%), and lung (11%). For Wisconsin men, the most frequently diagnosed cancers were prostate (30%), lung (15%), and colorectal (13%).
- The overall age-adjusted cancer incidence rate for Wisconsin residents in 1999 was 438 per 100,000 population. For males, the 1999 cancer incidence rate was 515 per 100,000 population. The cancer incidence rate for females was 385 per 100,000 female population. (These rates are age-adjusted to the Year 2000 U.S. standard population.)

Tumor characteristics

- In 1999, over one-half (53%) of reported cancers were diagnosed at an early stage (cases diagnosed at *in situ* or localized stage of disease). This was similar to the 54 percent of cases diagnosed "early" in 1998.
- Eighty-three percent of cervical cancers, 81 percent of bladder cancers, 80 percent of prostate cancers and 70 percent of breast cancers were detected at an early stage (*in situ* or local). By contrast, only 22 percent of lung cancers and 14 percent of pancreatic cancers were detected at an early stage.

Cancer mortality

- There were 10,731 cancer deaths in Wisconsin in 1999, slightly fewer than the 10,863 cancer deaths in 1998.
- The overall age-adjusted cancer mortality rate for Wisconsin residents in 1999 was 192 deaths per 100,000 population. For Wisconsin males, the cancer mortality rate was 243 per 100,000 population. The cancer mortality rate for Wisconsin females was 158 per 100,000 population. (These rates are age-adjusted to the Year 2000 U.S. standard population.)

- Lung cancer continues to be the leading cause of cancer mortality for Wisconsin men and women (2,642 Wisconsin resident deaths in 1999). Lung cancer was listed as the underlying cause of death for 27 percent of male cancer deaths and 22 percent of female cancer deaths. While the percent of lung cancer deaths has decreased for men (down from 29 percent of all cancers in 1998), it has remained constant for women.
- In 1999, the three highest cancer mortality rates for Wisconsin women were lung (35 per 100,000 population), breast (26 per 100,000), and colorectal (17 per 100,000). The highest cancer mortality rates for Wisconsin men were lung (65 per 100,000), prostate (31 per 100,000) and colorectal (26 per 100,000).
- Cancer deaths rise with age. Seventy-four percent of 1999 cancer deaths in Wisconsin occurred in those aged 65 or older.
- The cancer mortality rate for the Southeastern region of the state (202 per 100,000 population) was higher than the statewide rate (192 per 100,000). Among Wisconsin's counties with populations over 100,000, the five highest cancer mortality rates occurred in Waukesha County (210 per 100,000), Milwaukee County (209 per 100,000), Winnebago and Racine counties (196 per 100,000 in both) and Kenosha County (195 per 100,000).

Introduction: Guide for Reading this Report

Content of the Report. Wisconsin Cancer Incidence and Mortality, 1999 summarizes data on cases among Wisconsin residents diagnosed with cancer between January 1, 1999 and December 31, 1999 and reported to WCRS by November 15, 2001. The majority, approximately 95 percent, of WCRS's estimated 1999 cases are included in this report (some cases do not get reported until after publication). Mortality data are derived from 1999 Wisconsin resident death records where the underlying cause of death was listed as cancer.

Incidence and mortality data are analyzed by demographic characteristics of sex, age and race. Race is presented in four categories: White, African American, American Indian and Asian/Pacific Islander. Data on Hispanic ethnicity are not provided in this report. Age-adjusted rates for racial/ethnic groups were not calculated because the numbers from one year (1999) were too small for statistical reliability.

The geographic variables in this report (county and zip code) are based on the patient's residence at time of diagnosis for incidence data, and residence at time of death for mortality data. Rates were not calculated for many counties because the numbers were too small to produce reliable rates; only those counties with populations over 100,000 (13 of 72 counties in the state) were considered sufficient in size for rate calculations.

All cancer incidence cases in this report are classified and listed in order of their site group classification found in the *International Classification of Diseases for Oncology* (ICD-O), *Second Edition*. Mortality data are classified as listed in the *International Statistical Classification of Diseases and Related Health Problems, Tenth Revision* (ICD-10).

Data Sources. This report includes all cancer cases reported to WCRS that were diagnosed in 1999 among Wisconsin residents. These cases were reported by Wisconsin hospitals, clinics and physician offices, cooperating out-of-state cancer registries and selected Minnesota hospitals.

The 1999 mortality data were obtained from death certificates for Wisconsin residents, collected and coded by the Vital Records Section, Bureau of Health Information. Cancer mortality rate calculations are based on the underlying cause of death recorded on the death certificate.

The Bureau of Health Information (BHI) prepares the Wisconsin population estimates used to calculate rates. These estimates are for July 1, 1999. To produce these estimates, BHI uses January 1 state and county population totals developed by the Wisconsin Department of Administration, Demographic Services, together with the mid-year age- and sex-specific state estimates from the Population Estimates Branch of the U.S. Bureau of the Census.

Invasive and In Situ Cases. This annual report focuses on invasive cancer data in response to an increasing interest in comparing Wisconsin data with national data and data from other states. Most of the incidence tables contain invasive-only cancers (cancer has penetrated into organ tissue). Seven tables (9, 10, 11 and supplemental tables A, B, D and E) present both invasive and *in situ* (non-invasive) cancers for data users interested in the total number of cases.

Invasive cancer rates exclude all *in situ* cancer cases except for those of the urinary bladder (following national standards). The seven *in situ/invasive combined* incidence tables are provided to allow comparisons with data in previous annual reports and to address hospitals' needs to compare individual hospital data with statewide totals (for hospitals that prepare their own annual reports).

Age-adjusted Incidence and Mortality Rates. Following CDC guidelines, WCRS age-adjusts incidence and mortality rates per 100,000 population for Wisconsin residents to the U.S. Census Bureau's 2000 standard population age distribution. Rates are age-adjusted to account for differences in age distribution over time and across different geographic regions.

Cancer incidence rates reflect the number of newly diagnosed cancers in the population; this is not the same as the number of individuals who have been newly diagnosed with cancer. For example, in this report, a person diagnosed with two cancers in the same year will add two cancers to the annual cancer incidence rate. Thus "cancer cases" are distinguished from "individuals with cancer."

Notice to Readers: New Population Standard for Age-Adjusted Incidence and Mortality Rates.

The U.S. Department of Health and Human Services adopted a policy to begin using a single new population standard for age-adjusting rates based on the 2000 U.S. population. CDC mandated all NPCR states to use this standard effective for 1999 cancer incidence and mortality data.

The new population standard has two advantages:

- Previously, some state and Federal agencies used the 1970 U.S. population as the standard, while others used the 1940 population (especially for mortality data), making it difficult to compare data from different sources. Use of a single standard will help alleviate confusion among data users.
- The Year 2000 population standard more accurately represents the current U.S. age distribution and corresponds to the 2000 census year. The population has aged since 1970 and the new 2000 standard reflects the current population composition.

How does the new standard affect age-adjusted rates? Because older groups are weighted more heavily using the 2000 population, the rates will increase for most types of cancer since the majority of cancers occur in older populations. Cancer rates based on the Year 2000 population standard usually appear higher than those based on the 1970 population – even when the number of cases/deaths used to calculate the rates is identical. Readers should be aware that these rate changes are an artifact of the new 2000 population standard used in the rate calculations.

The age-adjusted rates can only be compared to other rates generated through the same method of adjustment to the same standard population. Therefore, it is important to note that rates calculated for 1999 should not be compared with rates calculated for earlier years unless they are also adjusted to the new 2000 standard population. Most state and Federal agencies have begun to convert rates from the 1970 standard to the 2000 standard, starting with 1999 data. However,

national cancer data from the National Cancer Institute's (NCI) Surveillance, Epidemiology and End Results (SEER) program and the North American Association of Central Cancer Registries (NAACCR) were not available for comparisons to Wisconsin data at the time this report was prepared. Rates in previous annual reports used the 1970 population standard and therefore should not be compared to the 1999 rates. For readers' convenience, tables 2 and 12, and figures 2, 3, 9 and 10 present rates age-adjusted to both the 1970 and the 2000 standards for comparison to previous annual reports and national publications.

Incidence and Mortality Comparisons. The incidence data presented in this report reflect cancers newly diagnosed in 1999. The mortality data represent cancer deaths that occurred in 1999; however, the cancer that led to the death may have been diagnosed prior to 1999. It is important that readers not reach conclusions about survival rates or percents based on 1999 incidence/mortality ratios. It is not correct to conclude that the same individuals are represented by incidence and mortality figures. Therefore, statements as, "Over 80 percent of lung cancer patients died within one year following diagnosis" (3,191 cases and 2,642 deaths in 1999), are not supported by WCRS data. Survival follow-up, in which cancer patients are tracked over the course of their disease, is not conducted by WCRS.

Data Quality and Limitations. This report represents data collected from different types of facilities (hospitals, clinics and central cancer registries). Reporting sources vary in their ability to provide timely and complete data, and WCRS appreciates the effort and dedication that reporting facilities make to ensure the overall good quality of Wisconsin cancer reports. However, variations in facility compliance and reporting practices exist based on the resources of the facility and the experience and qualifications of the reporters.

All Wisconsin-based facilities are *required* by Wisconsin statute to abstract and report cancer incidence data to WCRS within six months from the date of diagnosis or date of first contact with the patient. This 'six-month rule' is the national standard that all central cancer registries work to achieve and maintain. WCRS also received cases on a *voluntary* basis (information exchange protocol established through memoranda of understanding) from out-of-state sources such as Minnesota hospitals and clinics and out-of-state cancer registries.

WCRS staff edit, process and analyze the cancer data received. Quality assurance measures are in place to identify incomplete and/or inaccurate incoming data. Facility-specific training (in person, by phone, or through written correspondence) and group training sessions are implemented as needed (WCRS-initiated) or requested (facility-initiated).

The one-year time frame of this report limits certain data analyses because small numbers are reported for less common cancer sites and for county-level data. Frequency counts by cancer site are presented as an estimate of general magnitude for each county. Caution is warranted when computing rates or relative proportions due to the small population of many counties and relative rarity of some types of cancer.

| Wisconsin Cancer Incidence and Mortality, 199 |
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Table 1. Number and Percent of Invasive Cancer Cases by Individual Primary Site and Sex, Wisconsin, 1999

| Table 1. Number and Percent of Invasive Cancer Cases by | | | | | | |
|--|--------|-------|--------|-------|--------|---------|
| | MA | | FEM. | | TOT | |
| PRIMARY SITE (organ of origin) | | | Number | | | Percent |
| Lip | 27 | 0.2 | 15 | 0.1 | 42 | 0.2 |
| Tongue | 102 | 0.8 | 44 | 0.4 | 146 | 0.6 |
| Major Salivary Glands | 37 | 0.3 | 34 | 0.3 | 71 | 0.3 |
| Gum | 13 | 0.1 | 16 | 0.1 | 29 | 0.1 |
| Floor of Mouth | 35 | 0.3 | 12 | 0.1 | 47 | 0.2 |
| Other & Unspecified Parts of Mouth | 43 | 0.3 | 21 | 0.2 | 64 | 0.3 |
| Oropharynx | 82 | 0.7 | 28 | 0.2 | 110 | 0.5 |
| Nasopharynx | 19 | 0.2 | 12 | 0.1 | 31 | 0.1 |
| Hypopharynx | 63 | 0.5 | 13 | 0.1 | 76 | 0.3 |
| Other Sites in Lip, Oral Cavity & Pharynx | 11 | 0.1 | 5 | 0.0 | 16 | 0.1 |
| Esophagus | 223 | 1.8 | 71 | 0.6 | 294 | 1.2 |
| Stomach | 240 | 1.9 | 126 | 1.1 | 366 | 1.5 |
| Small Intestine | 62 | 0.5 | 40 | 0.3 | 102 | 0.4 |
| Colon | 1,127 | 9.1 | 1,113 | 9.7 | 2,240 | 9.4 |
| Rectum, Rectosigmoid Junction & Anus | 506 | 4.1 | 354 | 3.1 | 860 | 3.6 |
| Liver & Intrahepatic Bile Duct | 132 | 1.1 | 62 | 0.5 | 194 | 0.8 |
| Gallbladder & Extrahepatic Bile Duct | 43 | 0.3 | 87 | 0.8 | 130 | 0.5 |
| Pancreas | 277 | 2.2 | 299 | 2.6 | 576 | 2.4 |
| Retroperitoneum & Peritoneum | 14 | 0.1 | 22 | 0.2 | 36 | 0.2 |
| Other Within Digestive Organs & Peritoneum | 3 | 0.0 | 6 | 0.1 | 9 | 0.0 |
| Nasal Cavities & Sinuses, Internal Ear | 24 | 0.2 | 27 | 0.2 | 51 | 0.2 |
| Larynx | 161 | 1.3 | 55 | 0.5 | 216 | 0.9 |
| Trachea, Bronchus & Lung | 1,877 | 15.1 | 1,314 | 11.4 | 3,191 | 13.3 |
| Pleura | 38 | 0.3 | 9 | 0.1 | 47 | 0.2 |
| Thymus, Heart & Mediastinum | 15 | 0.1 | 12 | 0.1 | 27 | 0.1 |
| Other Respiratory & Intrathoracic Sites | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 |
| Hematopoietic & Reticuloendothelial Systems, Except Leukemia | 156 | 1.3 | 141 | 1.2 | 297 | 1.2 |
| Bone, Joints & Articular Cartilage | 34 | 0.3 | 29 | 0.3 | 63 | 0.3 |
| Connective, Subcutaneous & Other Soft Tissue | 74 | 0.6 | 83 | 0.7 | 157 | 0.7 |
| Melanoma of Skin | 313 | 2.5 | 249 | 2.2 | 562 | 2.3 |
| Breast | 35 | 0.3 | 3,761 | 32.8 | 3,796 | 15.9 |
| Uterus, NOS | - | - | 35 | 0.3 | 35 | 0.1 |
| Cervix Uteri | - | - | 259 | 2.3 | 259 | 1.1 |
| Placenta | - | - | 3 | 0.0 | 3 | 0.0 |
| Corpus Uteri | - | - | 690 | 6.0 | 690 | 2.9 |
| Ovary, Fallopian Tube & Broad Ligament | - | - | 400 | 3.5 | 400 | 1.7 |
| Other & Unspecified Female Genital Organs | - | - | 90 | 0.8 | 90 | 0.4 |
| Prostate | 3,744 | 30.1 | - | - | 3,744 | 15.7 |
| Testis | 204 | 1.6 | - | - | 204 | 0.9 |
| Penis & Other Male Genital Organs | 25 | 0.2 | - | - | 25 | 0.1 |
| Urinary Bladder | 860 | 6.9 | 313 | 2.7 | 1,173 | 4.9 |
| Kidney & Other Urinary Organs | 463 | 3.7 | 269 | 2.3 | 732 | 3.1 |
| Eye & Lacrimal Gland | 22 | 0.2 | 37 | 0.3 | 59 | 0.2 |
| Brain | 184 | 1.5 | 165 | 1.4 | 349 | 1.5 |
| Other & Unspecified Parts of Nervous System | 6 | 0.0 | 11 | 0.1 | 17 | 0.1 |
| Thyroid Gland | 77 | 0.6 | 232 | 2.0 | 309 | 1.3 |
| Other Endocrine Glands | 7 | 0.1 | 2 | 0.0 | 9 | 0.0 |
| Lymph Nodes | 347 | 2.8 | 276 | 2.4 | 623 | 2.6 |
| Hodgkin's Disease | 87 | 0.7 | 72 | 0.6 | 159 | 0.7 |
| Lymphoid Leukemia | 155 | 1.2 | 124 | 1.1 | 279 | 1.2 |
| Myeloid Leukemia | 157 | 1.3 | 127 | 1.1 | 284 | 1.2 |
| Other Leukemia | 47 | 0.4 | 36 | 0.3 | 83 | 0.3 |
| Other & Ill-defined Sites | 66 | 0.5 | 51 | 0.4 | 117 | 0.5 |
| Unknown Primary Site | 203 | 1.6 | 227 | 2.0 | 430 | 1.8 |
| All Reportable Sites | 12,440 | 100.0 | 11,480 | 100.0 | 23,920 | 100.0 |

Table 2. Number and Rates of *Invasive* Cancer Cases by Site Group and Sex, Rates Age-Adjusted to the 1970 and 2000 U.S. Standard Populations, Wisconsin, 1999

| | | MALE | | F | EMALI | Ξ | TOTAL | | | |
|---------------------------------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--|
| PRIMARY SITE | Number | Rate* | Rate** | Number | Rate* | Rate** | Number | Rate* | Rate** | |
| Mouth & Pharynx | 432 | 15.3 | 17.4 | 200 | 5.9 | 6.7 | 632 | 10.3 | 11.7 | |
| Stomach | 240 | 8.3 | 10.1 | 126 | 3.1 | 3.9 | 366 | 5.4 | 6.6 | |
| Colorectal | 1,633 | 56.7 | 68.4 | 1,467 | 37.5 | 46.0 | 3,100 | 46.2 | 55.9 | |
| Pancreas | 277 | 9.7 | 11.5 | 299 | 7.5 | 9.3 | 576 | 8.6 | 10.4 | |
| Other Gastrointestinal Tract | 477 | 16.6 | 19.8 | 288 | 7.7 | 9.2 | 765 | 11.7 | 13.9 | |
| Trachea, Bronchus & Lung | 1,877 | 66.4 | 77.7 | 1,314 | 38.9 | 44.1 | 3,191 | 50.9 | 58.4 | |
| Other Respiratory | 238 | 8.5 | 9.7 | 104 | 3.0 | 3.5 | 342 | 5.5 | 6.3 | |
| Bone & Connective Tissue | 108 | 3.9 | 4.3 | 112 | 3.5 | 3.8 | 220 | 3.7 | 4.1 | |
| Melanoma of Skin | 313 | 10.6 | 12.6 | 249 | 7.6 | 8.9 | 562 | 8.9 | 10.4 | |
| Breast | 35 | 1.2 | 1.5 | 3,761 | 110.6 | 128.6 | 3,796 | 59.3 | 69.8 | |
| Cervix Uteri | - | - | - | 259 | 8.4 | 9.7 | 259 | 4.2 | 4.9 | |
| Corpus Uteri | - | - | - | 690 | 21.2 | 23.9 | 690 | 11.2 | 12.8 | |
| Other Female Genital | - | - | - | 528 | 15.5 | 17.9 | 528 | 8.2 | 9.7 | |
| Prostate | 3,744 | 134.8 | 155.2 | - | - | - | 3,744 | 61.0 | 68.7 | |
| Other Male Genital | 229 | 7.7 | 9.0 | - | - | - | 229 | 3.8 | 4.4 | |
| Urinary Bladder | 860 | 29.5 | 36.4 | 313 | 8.4 | 10.0 | 1,173 | 17.7 | 21.2 | |
| Kidney & Other Urinary | 463 | 16.2 | 19.1 | 269 | 7.9 | 9.0 | 732 | 11.6 | 13.4 | |
| Eye, Brain & Other Nervous Sys. | 212 | 7.7 | 8.4 | 213 | 6.9 | 7.4 | 425 | 7.3 | 7.9 | |
| Lymph Nodes | 434 | 15.1 | 17.7 | 348 | 10.2 | 11.8 | 782 | 12.4 | 14.4 | |
| Leukemia | 359 | 12.8 | 14.8 | 287 | 8.2 | 9.4 | 646 | 10.3 | 11.8 | |
| All Others | 509 | 17.6 | 21.2 | 653 | 18.4 | 21.9 | 1,162 | 17.8 | 21.2 | |
| All Reportable Sites | 12,440 | 438.6 | 514.9 | 11,480 | 330.5 | 385.2 | 23,920 | 376.2 | 437.9 | |

Notes: Male rates are cases per 100,000 male residents, female rates are cases per 100,000 female residents, and total rates are cases per 100,000 residents. Site groups are listed in ICD-O2 numerical code order. See Technical Notes at the end of this report for the individual sites included in each site group.

- Males had a higher overall cancer incidence rate than females (515 compared to 385 per 100,000 population, respectively). Incidence rates were higher among males for all primary cancers (excluding sex-specific cancers).
- Compared with rates based on the 1970 standard population, rates based on the Year 2000 standard population were higher. The difference caused by this change in standard populations was greatest for cancers concentrated in older age groups, such as prostate cancer. Rates for typical childhood cancers, such as eye, brain and other nervous system cancers, and bone and connective tissue cancers, changed less.

^{*}Rates are age-adjusted to the 1970 U.S. standard population.

^{**}Rates are age-adjusted to the 2000 U.S. standard population.

Table 3. Number and Percent of Invasive Cancer Cases by Site Group and Race: Males, Wisconsin, 1999

| Tuble of Trumber und I | | | | ican | Ame | - | Asian/I | | , | - | | |
|--------------------------|--------|---------|--------|---------|--------|---------|---------|---------|--------|---------|--------|---------|
| | Whi | ite | Ame | rican | Ind | ian | Islan | der | Unkn | own | Tot | tal |
| PRIMARY SITE | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Mouth & Pharynx | 396 | 3.4 | 26 | 5.9 | 2 | 5.0 | 4 | 7.0 | 4 | 3.9 | 432 | 3.5 |
| Stomach | 224 | 1.9 | 12 | 2.7 | 1 | 2.5 | 3 | 5.3 | 0 | 0.0 | 240 | 1.9 |
| Colorectal | 1,562 | 13.2 | 40 | 9.1 | 10 | 25.0 | 8 | 14.0 | 13 | 12.8 | 1,633 | 13.1 |
| Pancreas | 263 | 2.2 | 10 | 2.3 | 1 | 2.5 | 1 | 1.8 | 2 | 2.0 | 277 | 2.2 |
| Other Gastrointestinal | 449 | 3.8 | 15 | 3.4 | 4 | 10.0 | 4 | 7.0 | 5 | 4.9 | 477 | 3.8 |
| Tract | | | | | | | | | | | | |
| Trachea, Bronchus & | 1,780 | 15.1 | 80 | 18.1 | 4 | 10.0 | 9 | 15.8 | 4 | 3.9 | 1,877 | 15.1 |
| Lung | | | | | | | | | | | | |
| Other Respiratory | 218 | 1.8 | 17 | 3.8 | 0 | 0.0 | 2 | 3.5 | 1 | 1.0 | 238 | 1.9 |
| Bone & Connective Tissue | 104 | 0.9 | 4 | 0.9 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 108 | 0.9 |
| Melanoma of Skin | 309 | 2.6 | 1 | 0.2 | 0 | 0.0 | 0 | 0.0 | 3 | 2.9 | 313 | 2.5 |
| Breast | 35 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 35 | 0.3 |
| Prostate | 3,521 | 29.8 | 160 | 36.2 | 6 | 15.0 | 10 | 17.5 | 47 | 46.1 | 3,744 | 30.1 |
| Other Male Genital | 221 | 1.9 | 3 | 0.7 | 1 | 2.5 | 1 | 1.8 | 3 | 2.9 | 229 | 1.8 |
| Urinary Bladder | 848 | 7.2 | 5 | 1.1 | 1 | 2.5 | 1 | 1.8 | 5 | 4.9 | 860 | 6.9 |
| Kidney & Other Urinary | 436 | 3.7 | 18 | 4.1 | 3 | 7.5 | 2 | 3.5 | 4 | 3.9 | 463 | 3.7 |
| Eye, Brain & Other | 203 | 1.7 | 4 | 0.9 | 2 | 5.0 | 3 | 5.3 | 0 | 0.0 | 212 | 1.7 |
| Nervous System | | | | | | | | | | | | |
| Lymph Nodes | 410 | 3.5 | 15 | 3.4 | 2 | 5.0 | 2 | 3.5 | 5 | 4.9 | 434 | 3.5 |
| Leukemia | 344 | 2.9 | 6 | 1.4 | 2 | 5.0 | 5 | 8.8 | 2 | 2.0 | 359 | 2.9 |
| All Others | 476 | 4.0 | 26 | 5.9 | 1 | 2.5 | 2 | 3.5 | 4 | 3.9 | 509 | 4.1 |
| All Reportable Sites | 11,799 | 100.0 | 442 | 100.0 | 40 | 100.0 | 57 | 100.0 | 102 | 100.0 | 12,440 | 100.0 |

Source: Wisconsin Cancer Reporting System, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Percents are calculated from the total number of cases for the particular sex and race group.

Numbers of cases reported for minority race groups are small; therefore percents based on those numbers are subject to large random variation. Site groups are listed in ICD-O2 numerical code order. See Technical Notes at the end of this report for the individual sites included in each site group.

- The most frequently reported cancers for Wisconsin males, all races combined, were prostate (30%), lung (15%) and colorectal (13%). Relatively constant over time, this pattern is similar to past years.
- In 1999, prostate cancer was the most frequently reported cancer for all Wisconsin males except American Indians (for whom colorectal cancer was most frequent).

Table 4. Number and Percent of Invasive Cancer Cases by Site Group and Race: Females, Wisconsin, 1999

| | | | Afri | ican | American | | Asian/Pacific | | | | | |
|------------------------------|--------|---------|--------|----------------|----------|---------|---------------|----------------|------|----------------|--------|---------|
| | Wh | ite | Ame | rican | Ind | lian | Islan | nder | Unkn | own | Tot | tal |
| PRIMARY SITE | Number | Percent | Number | Number Percent | | Percent | Number | Number Percent | | Number Percent | | Percent |
| Mouth & Pharynx | 190 | 1.7 | 5 | 1.3 | 0 | 0.0 | 4 | 6.4 | 1 | 1.3 | 200 | 1.8 |
| Stomach | 117 | 1.1 | 6 | 1.5 | 0 | 0.0 | 3 | 4.8 | 0 | 0.0 | 126 | 1.1 |
| Colorectal | 1,390 | 12.7 | 52 | 13.3 | 6 | 21.4 | 10 | 16.1 | 9 | 11.5 | 1,467 | 12.8 |
| Pancreas | 274 | 2.5 | 20 | 5.1 | 1 | 3.6 | 2 | 3.2 | 2 | 2.6 | 299 | 2.6 |
| Other Gastrointestinal Tract | 268 | 2.4 | 15 | 3.8 | 0 | 0.0 | 3 | 4.8 | 2 | 2.6 | 288 | 2.5 |
| Trachea, Bronchus & Lung | 1,250 | 11.4 | 80 | 13.0 | 8 | 28.6 | 3 | 4.8 | 2 | 2.6 | 1,314 | 11.4 |
| Other Respiratory | 98 | 0.9 | 17 | 1.3 | 0 | 0.0 | 1 | 1.6 | 0 | 0.0 | 104 | 0.9 |
| Bone & Connective Tissue | 105 | 1.0 | 4 | 1.0 | 1 | 3.6 | 0 | 0.0 | 2 | 2.6 | 112 | 1.0 |
| Melanoma of Skin | 241 | 2.2 | 1 | <.1 | 0 | 0.0 | 0 | 0.0 | 8 | 10.3 | 249 | 2.2 |
| Breast | 3,574 | 32.7 | 134 | 34.3 | 4 | 14.3 | 23 | 37.1 | 26 | 33.3 | 3,761 | 32.8 |
| Cervix Uteri | 218 | 2.0 | 25 | 6.4 | 4 | 14.3 | 2 | 3.2 | 10 | 12.8 | 259 | 2.3 |
| Corpus Uteri | 671 | 6.1 | 13 | 3.3 | 0 | 0.0 | 2 | 3.2 | 4 | 5.1 | 690 | 6.0 |
| Other Female Genital | 511 | 4.7 | 8 | 2.0 | 0 | 0.0 | 4 | 6.4 | 5 | 6.4 | 528 | 4.6 |
| Urinary Bladder | 308 | 2.8 | 4 | 1.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.3 | 313 | 2.7 |
| Kidney & Other Urinary | 261 | 2.4 | 4 | 1.0 | 2 | 7.1 | 1 | 1.6 | 1 | 1.3 | 269 | 2.4 |
| Eye, Brain & Other | 204 | 1.9 | 7 | 1.8 | 0 | 0.0 | 0 | 0.0 | 2 | 2.6 | 213 | 1.9 |
| Nervous System | | | | | | | | | | | | |
| Lymph Nodes | 338 | 3.1 | 9 | 2.3 | 1 | 3.6 | 0 | 0.0 | 0 | 0.0 | 348 | 3.0 |
| Leukemia | 275 | 2.5 | 10 | 2.6 | 0 | 0.0 | 2 | 3.2 | 0 | 0.0 | 287 | 2.5 |
| All Others | 628 | 5.8 | 19 | 4.9 | 1 | 3.6 | 2 | 3.2 | 3 | 3.8 | 653 | 5.7 |
| All Reportable Sites | 10,921 | 100.0 | 391 | 100.0 | 28 | 100.0 | 62 | 100.0 | 78 | 100.0 | 11,480 | 100.0 |

Notes: Percents are calculated from the total number of cases for the particular sex and race group.

Numbers of cases reported for minority race groups are small; therefore percents based on those numbers are subject to large random variation. Site groups are listed in ICD-O2 numerical code order. See Technical Notes at the end of this report for the individual sites included in each site group.

- The most frequently reported cancers for 1999 among Wisconsin females, all races combined, were breast (33%), colorectal (13%) and lung (11%). Virtually identical to 1998, the proportion represented by these cancers is relatively consistent over time.
- Breast cancer was the most frequently reported cancer in 1999 among Wisconsin females except American Indians (for whom colorectal and lung cancers were more frequently reported).

Table 5. Number and Age-Adjusted Rate of *Invasive* Cancer Cases by Major Site Group and Region, Wisconsin, 1999

| | | | | REGION | | | |
|------------------------|--------|-------|-----------|-----------|-------|-------|--------|
| PRIMARY SITE | | SOUTH | SOUTHEAST | NORTHEAST | WEST | NORTH | TOTAL |
| Colorectal | Number | 545 | 1,105 | 693 | 452 | 305 | 3,100 |
| | Rate | 57.0 | 55.8 | 55.5 | 57.4 | 53.7 | 55.9 |
| Other Gastrointestinal | Number | 366 | 982 | 510 | 247 | 234 | 2,339 |
| Tract | Rate | 38.5 | 49.9 | 41.3 | 31.6 | 42.0 | 42.6 |
| Respiratory | Number | 611 | 1,393 | 748 | 430 | 351 | 3,533 |
| | Rate | 64.8 | 71.1 | 61.1 | 55.9 | 62.9 | 64.7 |
| Breast | Number | 659 | 1,459 | 833 | 472 | 373 | 3,796 |
| | Rate | 69.1 | 73.8 | 68.6 | 62.3 | 69.3 | 69.7 |
| Female Genital | Number | 291 | 517 | 342 | 174 | 153 | 1,477 |
| | Rate | 30.7 | 26.3 | 28.7 | 23.2 | 28.9 | 27.4 |
| Male Genital | Number | 675 | 1,526 | 982 | 415 | 375 | 3,973 |
| | Rate | 71.8 | 78.3 | 80.4 | 53.7 | 67.1 | 73.1 |
| Urinary Tract | Number | 308 | 695 | 458 | 243 | 201 | 1,905 |
| | Rate | 32.5 | 35.3 | 37.0 | 30.9 | 35.7 | 34.6 |
| Leukemia & Lymph | Number | 258 | 509 | 334 | 168 | 159 | 1,428 |
| Nodes | Rate | 27.1 | 25.7 | 27.8 | 22.1 | 28.8 | 26.2 |
| All Others | Number | 433 | 907 | 554 | 289 | 186 | 2,369 |
| | Rate | 45.4 | 45.8 | 45.8 | 38.1 | 35.0 | 43.6 |
| All Reportable Sites | Number | 4,146 | 9,093 | 5,454 | 2,890 | 2,337 | 23,920 |
| | Rate | 436.7 | 461.8 | 446.3 | 375.2 | 423.3 | 437.9 |

Notes: Rates are cases per 100,000 residents, age-adjusted to the Year 2000 U.S. standard population.

The regions used are the Department of Health and Family Services Regions; see Map on page 63 for regional boundaries.

See Technical Notes at the end of this report for the individual sites included in each major site group. In this table, the major site group "Other Gastrointestinal Tract" includes the site group "Mouth and Pharynx."

• Regional age-adjusted cancer incidence rates ranged from 375 per 100,000 population in the Western region to 462 per 100,000 population in the Southeastern region.

Table 6. Number and Age-Adjusted Rate of *Invasive* Cancer Cases by Major Site Group, Counties Over 100,000 Population, Wisconsin, 1999

| Primary Site | | Brown | Dane | Kenosha | La Crosse | Marathon | Milwaukee | Outagamie |
|----------------------|--------|-------|-------|---------|-----------|----------|-----------|-----------|
| Colorectal | Number | 108 | 200 | 67 | 62 | 74 | 494 | 81 |
| | Rate | 52.3 | 60.0 | 48.7 | 58.5 | 55.8 | 51.5 | 54.4 |
| Other Gastro- | Number | 76 | 136 | 56 | 41 | 42 | 502 | 77 |
| Intestinal Tract | Rate | 36.6 | 39.5 | 40.3 | 39.4 | 32.2 | 53.9 | 52.1 |
| Respiratory | Number | 112 | 226 | 117 | 63 | 72 | 702 | 110 |
| | Rate | 54.6 | 68.2 | 85.1 | 62.6 | 55.1 | 75.7 | 75.3 |
| Breast | Number | 140 | 267 | 105 | 96 | 85 | 664 | 111 |
| | Rate | 66.7 | 74.4 | 75.5 | 96.0 | 65.0 | 71.7 | 73.5 |
| Female Genital | Number | 66 | 116 | 45 | 18 | 32 | 278 | 45 |
| | Rate | 31.4 | 31.8 | 32.9 | - | 24.5 | 30.0 | 29.5 |
| Male Genital | Number | 169 | 268 | 81 | 67 | 85 | 689 | 105 |
| | Rate | 83.7 | 80.6 | 59.0 | 68.2 | 65.7 | 74.5 | 72.4 |
| Urinary Tract | Number | 72 | 97 | 41 | 44 | 49 | 309 | 72 |
| | Rate | 35.3 | 28.0 | 29.5 | 43.8 | 37.1 | 32.6 | 48.4 |
| Leukemia & | Number | 54 | 110 | 39 | 32 | 37 | 219 | 49 |
| Lymph Nodes | Rate | 25.7 | 31.2 | 28.4 | 31.0 | 28.4 | 23.0 | 32.5 |
| All Others | Number | 88 | 190 | 57 | 63 | 40 | 407 | 73 |
| | Rate | 40.6 | 51.0 | 40.6 | 60.9 | 30.1 | 43.1 | 47.6 |
| All Reportable Sites | Number | 885 | 1,610 | 608 | 486 | 516 | 4,264 | 723 |
| | Rate | 427.1 | 464.8 | 439.9 | 478.1 | 394.0 | 456.0 | 485.8 |

Notes: Rates are cases per 100,000 residents, age-adjusted to the Year 2000 U.S. standard population. See Technical Notes at the end of this report for the individual sites included in each major site group. In this table, the major site group "Other Gastrointestinal Tract" includes the site group "Mouth and Pharynx."

Rates for fewer than 20 cases are omitted because they are subject to large random fluctuation.

(table continued on next page)

Table 6. Number and Age-Adjusted Rate of *Invasive* Cancer Cases by Major Site Group, Counties Over 100,000 Population, Wisconsin, 1999 (continued)

| Primary Site | | Racine | Rock | Sheboygan | Waukesha | Washington | Winnebago | State Total |
|----------------------|--------|--------|-------|-----------|----------|------------|-----------|-------------|
| Colorectal | Number | 132 | 95 | 82 | 205 | 77 | 101 | 3,100 |
| | Rate | 68.5 | 59.3 | 64.8 | 61.7 | 70.8 | 61.6 | 55.9 |
| Other Gastro- | Number | 96 | 68 | 49 | 183 | 40 | 74 | 2,339 |
| Intestinal Tract | Rate | 50.0 | 42.4 | 38.5 | 55.1 | 36.9 | 46.1 | 42.6 |
| Respiratory | Number | 137 | 127 | 82 | 219 | 64 | 112 | 3,533 |
| | Rate | 71.1 | 79.5 | 67.1 | 67.2 | 59.5 | 70.5 | 64.7 |
| Breast | Number | 144 | 114 | 80 | 287 | 88 | 108 | 3,796 |
| | Rate | 74.7 | 72.2 | 65.7 | 81.6 | 79.6 | 67.9 | 69.8 |
| Female Genital | Number | 37 | 54 | 34 | 85 | 18 | 41 | 1,477 |
| | Rate | 19.5 | 34.6 | 28.3 | 24.4 | - | 26.0 | 27.4 |
| Male Genital | Number | 143 | 108 | 121 | 328 | 86 | 117 | 3,973 |
| | Rate | 74.6 | 67.4 | 99.5 | 97.7 | 79.3 | 74.5 | 73.1 |
| Urinary Tract | Number | 62 | 57 | 43 | 145 | 39 | 72 | 1,905 |
| | Rate | 32.3 | 35.7 | 35.0 | 43.5 | 36.2 | 45.4 | 34.6 |
| Leukemia & | Number | 52 | 39 | 37 | 100 | 32 | 49 | 1,428 |
| Lymph Nodes | Rate | 27.6 | 25.0 | 31.2 | 29.3 | 29.6 | 30.7 | 26.2 |
| All Others | Number | 83 | 72 | 62 | 201 | 39 | 77 | 2,369 |
| | Rate | 43.1 | 45.9 | 50.5 | 58.8 | 35.5 | 48.9 | 43.6 |
| All Reportable Sites | Number | 886 | 734 | 590 | 1,753 | 483 | 751 | 23,920 |
| | Rate | 461.5 | 462.0 | 480.2 | 519.3 | 443.6 | 471.8 | 437.9 |

Notes: Rates are cases per 100,000 residents, age-adjusted to the Year 2000 U.S. standard population.

See Technical Notes at the end of this report for the individual sites included in each major site group. In this table, the major site group "Other Gastrointestinal Tract" includes the site group "Mouth and Pharynx."

Rates for fewer than 20 cases are omitted because they are subject to large random fluctuation.

• In 1999, the 13 most populous counties in Wisconsin had age-adjusted cancer incidence rates ranging from 394 per 100,000 population (Marathon County) to 519 per 100,000 population (Waukesha County). The statewide rate was 438 per 100,000 population.

Table 7. Number of *Invasive* Cancer Cases by Site Group, Age and Sex, Wisconsin, 1999

| | | | | AGE AND SEX | | | | | | | | | | | |
|--------------------------------------|--------|--------|---------|-------------|-----|------|----|-----|-----|------|-----|------|-----|-----|-----|
| - | | | | 0-1 | 9 | 20-2 | 24 | 25- | 29 | 30-3 | 34 | 35-3 | 39 | 40- | 44 |
| PRIMARY SITE | Total | Males | Females | M | F | M | F | M | F | M | F | M | F | M | F |
| Mouth & Pharynx | 632 | 432 | 200 | 2 | 0 | 0 | 1 | 5 | 0 | 3 | 4 | 9 | 3 | 24 | 12 |
| Stomach | 366 | 240 | 126 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 2 | 1 |
| Colorectal | 3,100 | 1,633 | 1,467 | 0 | 1 | 2 | 3 | 4 | 1 | 6 | 5 | 21 | 15 | 22 | 32 |
| Pancreas | 576 | 277 | 299 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 3 | 3 |
| Other Gastrointestinal Tract | 765 | 477 | 288 | 5 | 1 | 2 | 1 | 0 | 2 | 3 | 0 | 11 | 2 | 9 | 2 |
| Trachea, Bronchus & Lung | 3,191 | 1,877 | 1,314 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 11 | 13 | 33 | 39 |
| Other Respiratory | 342 | 238 | 104 | 2 | 1 | 2 | 1 | 0 | 1 | 4 | 1 | 2 | 4 | 8 | 4 |
| Bone & Connective Tissue | 220 | 108 | 112 | 12 | 17 | 3 | 2 | 4 | 5 | 5 | 3 | 6 | 2 | 4 | 9 |
| Melanoma of Skin | 562 | 313 | 249 | 3 | 7 | 3 | 9 | 6 | 15 | 9 | 17 | 22 | 25 | 28 | 28 |
| Breast | 3,796 | 35 | 3,761 | 0 | 0 | 0 | 3 | 0 | 15 | 0 | 55 | 2 | 112 | 1 | 253 |
| Cervix Uteri | 259 | 0 | 259 | 0 | 6 | 0 | 11 | 0 | 29 | 0 | 30 | 0 | 39 | 0 | 34 |
| Corpus Uteri | 690 | 0 | 690 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 6 | 0 | 25 | 0 | 19 |
| Other Female Genital | 528 | 0 | 528 | 0 | 7 | 0 | 4 | 0 | 10 | 0 | 10 | 0 | 19 | 0 | 30 |
| Prostate | 3,744 | 3,744 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Other Male Genital | 229 | 229 | 0 | 7 | 0 | 20 | 0 | 32 | 0 | 37 | 0 | 32 | 0 | 27 | 0 |
| Urinary Bladder | 1,173 | 860 | 313 | 0 | 1 | 1 | 1 | 0 | 1 | 3 | 1 | 6 | 6 | 17 | 3 |
| Kidney & Other Urinary | 732 | 463 | 269 | 1 | 3 | 0 | 1 | 4 | 1 | 7 | 1 | 11 | 6 | 17 | 7 |
| Eye, Brain & Other Nervous System | 425 | 212 | 213 | 20 | 26 | 11 | 6 | 1 | 4 | 8 | 6 | 11 | 11 | 16 | 14 |
| Lymph Nodes | 782 | 434 | 348 | 13 | 12 | 11 | 11 | 15 | 7 | 13 | 20 | 23 | 14 | 23 | 14 |
| Leukemia | 646 | 359 | 287 | 26 | 26 | 3 | 0 | 5 | 6 | 8 | 10 | 7 | 5 | 11 | 3 |
| All Others | 1,162 | 509 | 653 | 5 | 10 | 5 | 16 | 8 | 15 | 7 | 27 | 14 | 33 | 9 | 52 |
| All Reportable Sites | 23,920 | 12,440 | 11,480 | 96 | 118 | 63 | 74 | 88 | 114 | 117 | 198 | 191 | 336 | 257 | 559 |

Notes: Age groupings vary in this table; childhood cancers (0-19) are followed by 5-year groupings. See Technical Notes at the end of this report for the individual sites included in each site group.

(Table continued on next page)

Table 7. Number of Cancer Cases by Site Group, Age and Sex, Wisconsin, 1999 (Continued)

| | | | | | | | AGE AND SEX | | | | | | | | | | | |
|--------------------------------------|------|-----|------|-----|-------|-----|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|
| | 45-4 | 19 | 50-5 | 54 | 55-5 | 59 | 60- | 64 | 65- | 69 | 70- | 74 | 75- | 79 | 80- | 84 | 85 | + |
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| Mouth & Pharynx | 40 | 11 | 54 | 15 | 54 | 10 | 58 | 29 | 62 | 34 | 43 | 30 | 33 | 16 | 26 | 19 | 19 | 16 |
| Stomach | 13 | 1 | 13 | 6 | 23 | 7 | 27 | 8 | 34 | 16 | 38 | 17 | 34 | 22 | 31 | 20 | 21 | 26 |
| Colorectal | 69 | 53 | 99 | 57 | 127 | 77 | 222 | 122 | 221 | 187 | 269 | 221 | 246 | 224 | 189 | 204 | 136 | 265 |
| Pancreas | 15 | 10 | 29 | 13 | 27 | 13 | 27 | 17 | 38 | 42 | 53 | 45 | 36 | 49 | 30 | 61 | 16 | 44 |
| Other Gastrointestinal Tract | 20 | 13 | 39 | 14 | 45 | 24 | 44 | 20 | 63 | 30 | 88 | 50 | 73 | 49 | 45 | 45 | 20 | 35 |
| Trachea, Bronchus & Lung | 39 | 39 | 92 | 98 | 159 | 122 | 242 | 173 | 328 | 212 | 388 | 225 | 302 | 185 | 193 | 136 | 86 | 72 |
| Other Respiratory | 11 | 6 | 19 | 8 | 30 | 6 | 31 | 11 | 36 | 17 | 39 | 12 | 27 | 14 | 17 | 9 | 10 | 9 |
| Bone & Connective Tissue | 9 | 5 | 8 | 7 | 12 | 11 | 3 | 5 | 7 | 5 | 13 | 7 | 11 | 13 | 8 | 13 | 3 | 8 |
| Melanoma of Skin | 22 | 21 | 33 | 21 | 21 | 11 | 29 | 19 | 34 | 15 | 38 | 23 | 32 | 10 | 22 | 18 | 11 | 10 |
| Breast | 0 | 360 | 1 | 376 | 4 | 392 | 5 | 400 | 3 | 380 | 7 | 423 | 4 | 423 | 4 | 313 | 4 | 256 |
| Cervix Uteri | 0 | 15 | 0 | 28 | 0 | 17 | 0 | 13 | 0 | 10 | 0 | 12 | 0 | 10 | 0 | 3 | 0 | 2 |
| Corpus Uteri | 0 | 54 | 0 | 73 | 0 | 86 | 0 | 77 | 0 | 93 | 0 | 96 | 0 | 89 | 0 | 32 | 0 | 34 |
| Other Female Genital | 0 | 41 | 0 | 37 | 0 | 39 | 0 | 60 | 0 | 56 | 0 | 59 | 0 | 64 | 0 | 59 | 0 | 33 |
| Prostate | 51 | 0 | 197 | 0 | 371 | 0 | 533 | 0 | 734 | 0 | 777 | 0 | 544 | 0 | 338 | 0 | 196 | 0 |
| Other Male Genital | 21 | 0 | 7 | 0 | 9 | 0 | 6 | 0 | 7 | 0 | 7 | 0 | 9 | 0 | 4 | 0 | 4 | 0 |
| Urinary Bladder | 26 | 9 | 40 | 13 | 62 | 22 | 80 | 27 | 140 | 50 | 150 | 45 | 146 | 42 | 101 | 51 | 88 | 41 |
| Kidney & Other Urinary | 30 | 10 | 26 | 16 | 47 | 29 | 58 | 31 | 68 | 30 | 69 | 46 | 59 | 44 | 35 | 26 | 31 | 18 |
| Eye, Brain & Other Nervous System | 9 | 13 | 17 | 8 | 17 | 21 | 29 | 15 | 15 | 22 | 27 | 23 | 12 | 15 | 13 | 15 | 6 | 14 |
| Lymph Nodes | 24 | 17 | 30 | 22 | 40 | 28 | 44 | 26 | 41 | 38 | 52 | 30 | 41 | 41 | 37 | 34 | 27 | 34 |
| Leukemia | 14 | 17 | 17 | 11 | 28 | 18 | 32 | 28 | 42 | 17 | 62 | 29 | 56 | 45 | 28 | 29 | 20 | 43 |
| All Others | 33 | 37 | 46 | 37 | 35 | 42 | 56 | 47 | 66 | 55 | 57 | 77 | 69 | 64 | 55 | 76 | 44 | 65 |
| All Reportable Sites | 446 | 732 | 767 | 860 | 1,111 | 975 | 1,526 | 1,128 | 1,939 | 1,309 | 2,177 | 1,470 | 1,734 | 1,419 | 1,176 | 1,163 | 752 | 1,025 |

Notes: Age groupings vary in this table; childhood cancers (0-19) are followed by 5-year groupings. See Technical Notes at the end of this report for the individual sites included in each site group.

- Cancer is closely related to increasing age and rises in frequency dramatically after age 50.
- Certain types of cancer (leukemia, eye brain and other central nervous system, lymphomas, and bone/connective tissue) are more common in children and account for nearly three-fourths of childhood cancers, but less than one-tenth of adult cancers.

Table 8. Number of *Invasive* Cancer Cases by Race, Age and Sex, Wisconsin, 1999

| | | | | AGE | GROUP | | | |
|------------------------|--------|---------|---------|---------|---------|---------|-------|--------|
| • | 0 - 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65 - 74 | 75 - 84 | 85 + | TOTAL |
| MALES | | | | | | | | |
| White | 61 | 79 | 600 | 3,596 | 3,915 | 2,811 | 737 | 11,799 |
| African American | 3 | 6 | 35 | 189 | 143 | 58 | 8 | 442 |
| American Indian | 0 | 2 | 3 | 14 | 15 | 4 | 2 | 40 |
| Asian/Pacific Islander | 4 | 2 | 6 | 28 | 11 | 6 | 0 | 57 |
| Unknown | 1 | 1 | 9 | 23 | 32 | 31 | 5 | 102 |
| Total Males | 69 | 90 | 653 | 3,850 | 4,116 | 2,910 | 752 | 12,440 |
| FEMALES | | | | | | | | |
| White | 54 | 116 | 1,103 | 3,472 | 2,665 | 2,510 | 1,001 | 10,921 |
| African American | 5 | 6 | 69 | 164 | 79 | 52 | 16 | 391 |
| American Indian | 1 | 1 | 6 | 11 | 6 | 2 | 1 | 28 |
| Asian/Pacific Islander | 2 | 1 | 7 | 25 | 18 | 6 | 3 | 62 |
| Unknown | 2 | 4 | 22 | 23 | 11 | 12 | 4 | 78 |
| Total Females | 64 | 128 | 1,207 | 3,695 | 2,779 | 2,582 | 1,025 | 11,480 |
| TOTAL | | | | | | | | |
| White | 115 | 195 | 1,703 | 7,068 | 6,580 | 5,321 | 1,738 | 22,720 |
| African American | 8 | 12 | 104 | 353 | 222 | 110 | 24 | 833 |
| American Indian | 1 | 3 | 9 | 25 | 21 | 6 | 3 | 68 |
| Asian/Pacific Islander | 6 | 3 | 13 | 53 | 29 | 12 | 3 | 119 |
| Unknown | 3 | 5 | 31 | 46 | 43 | 43 | 9 | 180 |
| Total | 133 | 218 | 1,860 | 7,545 | 6,895 | 5,492 | 1,777 | 23,920 |

- The largest number of cancer cases among females was in the 45-64 age group, regardless of race.
- More variation by race was found among males. The largest number of cases reported among African American and Asian/Pacific Islander males was in the 45-64 age group; while the largest number of cases reported among white and American Indian males and males of unknown race was in the 65-74 age group.

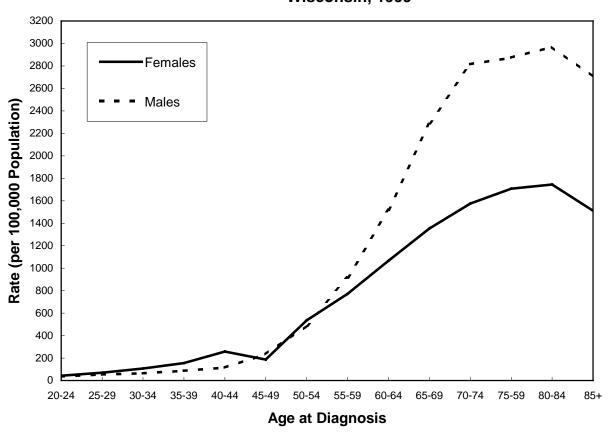


Figure 1. Age-Specific *Invasive* Cancer Incidence Rates, by Sex, Wisconsin, 1999

- In general, cancer incidence rises with age for both males and females (until about age 80).
- Males have a lower incidence rate than females until about age 50, after which point male cancer incidence exceeds female incidence. The margin of difference expands with increasing age.

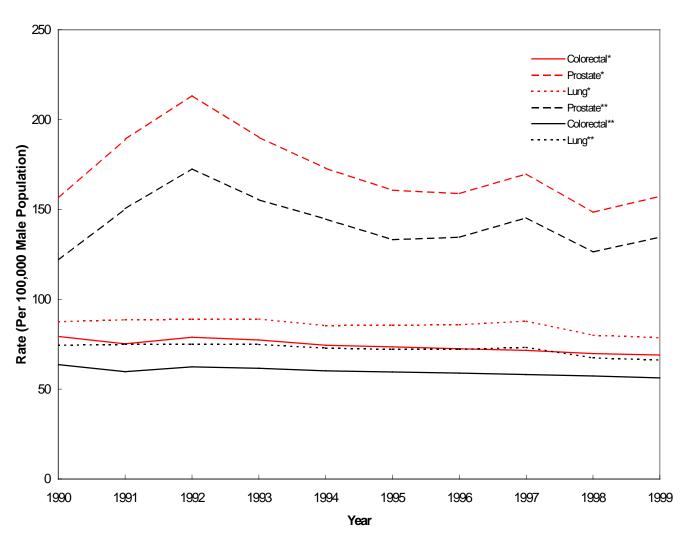


Figure 2. Male Invasive Cancer Incidence Rates, Age-Adjusted to the 1970 and 2000 Standard Populations, Wisconsin, 1990-1999

^{*} Rates age-adjusted to the 2000 U.S. standard population.

^{**} Rates age-adjusted to the 1970 U.S. standard population.

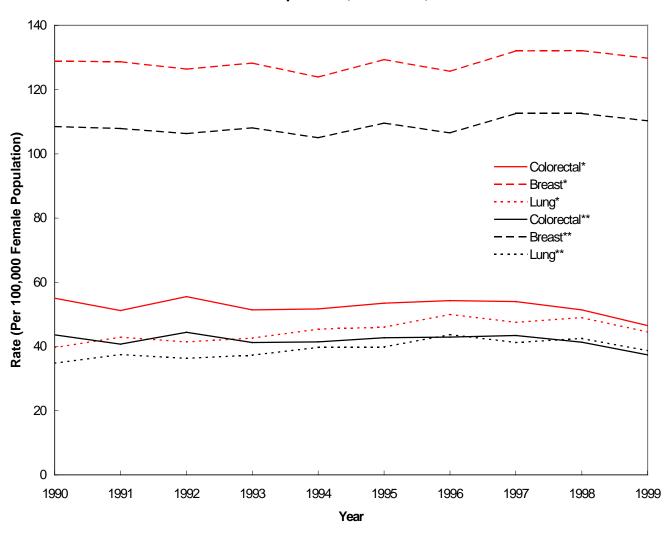


Figure 3. Female Invasive Cancer Incidence Rates, Age-Adjusted to the 1970 and 2000 Standard Populations, Wisconsin, 1990-1999

^{*} Rates age-adjusted to the 2000 U.S. standard population.

^{**} Rates age-adjusted to the 1970 U.S. standard population.

Table 9. Number and Percent of *In Situ/Invasive Combined* Cancer Cases by Site Group and Stage of Disease, Wisconsin, 1999

| | lage or | | | | | GE OF D | ISEASE | | | | |
|-----------------------------------|---------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | IN S | ITU | LOC | CAL | REGIO | ONAL | DIST | ANT | NOT S | ΓATED | TOTAL |
| PRIMARY SITE | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number |
| Mouth & Pharynx | 14 | 2.2 | 267 | 41.3 | 290 | 44.9 | 42 | 6.5 | 33 | 5.1 | 646 |
| Stomach | 4 | 1.1 | 99 | 26.8 | 127 | 34.3 | 101 | 27.3 | 39 | 10.5 | 370 |
| Colorectal | 216 | 6.5 | 1,128 | 34.0 | 1,265 | 38.1 | 513 | 15.5 | 294 | 8.9 | 3,316 |
| Pancreas | 2 | 0.3 | 79 | 13.7 | 183 | 31.7 | 260 | 45.0 | 54 | 9.3 | 578 |
| Other Gastrointestinal Tract | 12 | 1.5 | 240 | 30.9 | 226 | 29.1 | 203 | 26.1 | 96 | 12.4 | 777 |
| Trachea, Bronchus & Lung | 4 | 0.1 | 715 | 22.4 | 950 | 29.7 | 1,304 | 40.8 | 222 | 6.9 | 3,195 |
| Other Respiratory | 18 | 5.0 | 176 | 48.9 | 109 | 30.3 | 30 | 8.3 | 27 | 7.5 | 360 |
| Bone & Connective Tissue | 0 | 0.0 | 123 | 55.9 | 36 | 16.4 | 40 | 18.2 | 21 | 9.5 | 220 |
| Melanoma of Skin | 140 | 19.9 | 422 | 60.1 | 36 | 5.1 | 32 | 4.6 | 72 | 10.3 | 702 |
| Breast | 744 | 16.4 | 2,445 | 53.9 | 1,023 | 22.5 | 157 | 3.5 | 171 | 3.8 | 4,540 |
| Cervix Uteri | 550 | 68.0 | 123 | 15.2 | 51 | 6.3 | 19 | 2.3 | 66 | 8.2 | 809 |
| Corpus Uteri | 9 | 1.3 | 530 | 75.8 | 95 | 13.6 | 45 | 6.4 | 20 | 2.9 | 699 |
| Other Female Genital | 66 | 11.1 | 174 | 29.3 | 103 | 17.3 | 221 | 37.2 | 30 | 5.1 | 594 |
| Prostate | 1 | 0.0 | 2,982 | 79.6 | 380 | 10.1 | 179 | 4.8 | 203 | 5.4 | 3,745 |
| Other Male Genital | 7 | 3.0 | 163 | 69.1 | 38 | 16.1 | 18 | 7.6 | 10 | 4.2 | 236 |
| Urinary Bladder | 318 | 27.1 | 634 | 54.0 | 103 | 8.8 | 31 | 2.6 | 87 | 7.4 | 1,173 |
| Kidney & Other Urinary | 17 | 2.3 | 424 | 56.6 | 110 | 14.7 | 152 | 20.3 | 46 | 6.1 | 749 |
| Eye, Brain & Other Nervous System | 5 | 1.2 | 334 | 77.7 | 46 | 10.7 | 13 | 3.0 | 32 | 7.4 | 430 |
| Lymph Nodes | 0 | 0.0 | 183 | 23.4 | 166 | 21.2 | 433 | 55.4 | 0 | 0.0 | 782 |
| Leukemia | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 646 | 100.0 | 0 | 0.0 | 646 |
| All Others | 0 | 0.0 | 273 | 23.5 | 104 | 9.0 | 475 | 40.9 | 310 | 26.7 | 1,162 |
| All Reportable Sites | 2,217 | 8.3 | 11,514 | 44.8 | 5,441 | 21.2 | 4,914 | 19.1 | 1,733 | 6.8 | 25,729 |

Source: Wisconsin Cancer Reporting System, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes at the end of this report for definitions of the "stage of disease" categories and the individual sites included in each site group.

- In 1999, over one-half (53%) of all Wisconsin cancers were diagnosed at an early stage (*in situ* or local). Prostate, breast, cervical, uterine, bladder, melanoma of skin, 'other' male genital and central nervous system cancers were diagnosed early in over 70 percent of cases reported.
- Lung and pancreatic cancers were diagnosed at a later stage (regional or distant) in over 70 percent of cases.

Table 10. Percent of *In Situ/Invasive Combined* Cancer Cases by Site Group and Diagnostic Confirmation, Wisconsin, 1999

| | | | | TYPE OF | DIAGNOST | IC CONFIR | MATION | | | |
|----------------------|-----------------------|-------------------------|-------------------------|---------------------|------------------------------|-----------|------------------------------|---------|---------------|-------------------|
| Primary Site | Positive Histology | Cyto- Logy/ Blood | Micro- Scopic NOS | Lab Test/ Marker | Surgical Obser- vation | Imaging | Other Clinical Methods | Autopsy | Not Stated | Total (Number) |
| Mouth & Pharynx | 97.5 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 646 |
| Stomach | 95.9 | 1.1 | 0.0 | 0.0 | 0.8 | 0.5 | 0.3 | 0.0 | 1.4 | 370 |
| Colorectal | 97.4 | 0.1 | 0.2 | 0.1 | 0.8 | 0.2 | 0.1 | 0.0 | 1.1 | 3,316 |
| Pancreas | 65.6 | 14.4 | 0.2 | 0.9 | 0.9 | 10.7 | 2.2 | 0.2 | 5.0 | 578 |
| Other Gastro- | | | | | | | | | | |
| Intestinal Tract | 87.3 | 4.0 | 2.3 | 0.0 | 0.0 | 2.7 | 0.1 | 0.3 | 3.3 | 777 |
| Trachea, Bronchus & | | | | | | | | | | |
| Lung | 77.9 | 12.7 | 0.5 | 0.0 | 0.3 | 5.3 | 0.4 | 0.0 | 2.9 | 3,195 |
| Other Respiratory | 96.9 | 0.8 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 1.9 | 360 |
| Bone & Connective | | | | | | | | | | |
| Tissue | 96.8 | 0.5 | 0.9 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.9 | 220 |
| Melanoma of Skin | 99.6 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 702 |
| Breast | 98.1 | 0.6 | 0.1 | 0.0 | 0.1 | 0.4 | 0.1 | 0.0 | 0.6 | 4,540 |
| Cervix Uteri | 98.9 | 1.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 809 |
| Corpus Uteri | 99.1 | 0.3 | 0.1 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.1 | 699 |
| Other Female Genital | 93.3 | 2.7 | 0.0 | 0.5 | 0.0 | 1.5 | 0.8 | 0.0 | 1.2 | 594 |
| Prostate | 97.5 | 0.2 | 0.0 | 1.3 | 0.0 | 0.2 | 0.3 | 0.0 | 0.6 | 3,745 |
| Other Male Genital | 97.9 | 0.4 | 0.4 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.4 | 236 |
| Urinary Bladder | 97.0 | 1.3 | 0.5 | 0.0 | 0.2 | 0.5 | 0.0 | 0.0 | 0.5 | 1,173 |
| Kidney & Other | | | | | | | | | | |
| Urinary | 88.5 | 2.7 | 4.4 | 0.0 | 0.0 | 3.3 | 0.3 | 0.0 | 0.8 | 749 |
| Eye, Brain & Other | | | | | | | | | | |
| Nervous System | 84.0 | 0.2 | 8.1 | 0.0 | 0.5 | 3.0 | 0.0 | 0.0 | 4.2 | 430 |
| Lymph Nodes | 94.9 | 1.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.3 | 782 |
| Leukemia | 76.0 | 5.1 | 12.7 | 1.9 | 0.0 | 0.2 | 0.3 | 0.0 | 3.9 | 646 |
| All Others | 81.2 | 6.6 | 1.4 | 0.5 | 0.1 | 5.7 | 0.6 | 0.3 | 3.8 | 1,162 |
| All Reportable Sites | | | | | | | | | | |
| Percent | 92.3 | 3.0 | 0.9 | 0.3 | 0.1 | 1.7 | 0.2 | 0.0 | 1.5 | 100.0 |
| Number | 23,738 | 763 | 229 | 75 | 32 | 432 | 64 | 11 | 385 | 25,729 |

Notes: Cancers listed under "Microscopic NOS" (not otherwise specified) were diagnosed microscopically but without specification of positive histology or cytology.

Percents may not add to 100 due to rounding.

See Technical Notes at the end of this report for definitions of type of diagnostic confirmation.

Table 11. Number and Percent of *In Situ/Invasive Combined* Cancer Cases by Site Group and Tumor Cell Type, Wisconsin, 1999

| - | CARCINOMA/ ADENOCARCINOMA | | | CELL | TYPE GF | OUP | | | | |
|-----------------------------------|------------------------------|------|---------------|-------|---------|-------|--------|------|--------|-------|
| | | | OTHI: SOLI | | NON-SO | OLID | UNKNO | WN | ТОТА | L |
| PRIMARY SITE | NUMBER | % | NUMBER | % | NUMBER | % | NUMBER | % | NUMBER | % |
| Mouth & Pharynx | 566 | 87.6 | 41 | 6.3 | 33 | 5.1 | 6 | 0.9 | 646 | 100.0 |
| Stomach | 314 | 84.9 | 9 | 2.4 | 38 | 10.3 | 9 | 2.4 | 370 | 100.0 |
| Colorectal | 3,241 | 97.7 | 0 | 0.0 | 15 | 0.5 | 60 | 1.8 | 3,316 | 100.0 |
| Pancreas | 497 | 86.0 | 3 | 0.5 | 3 | 0.5 | 75 | 13.0 | 578 | 100.0 |
| Other Gastrointestinal Tract | 668 | 86.0 | 34 | 4.4 | 43 | 5.5 | 32 | 4.1 | 777 | 100.0 |
| Trachea, Bronchus & Lung | 2,929 | 91.7 | 53 | 1.7 | 11 | 0.3 | 202 | 6.3 | 3,195 | 100.0 |
| Other Respiratory | 256 | 71.1 | 77 | 21.4 | 19 | 5.3 | 8 | 2.2 | 360 | 100.0 |
| Bone & Connective Tissue | 0 | 0.0 | 174 | 79.0 | 39 | 17.7 | 7 | 3.2 | 220 | 100.0 |
| Melanoma of Skin | 0 | 0.0 | 702 | 100.0 | 0 | 0.0 | 0 | 0.0 | 702 | 100.0 |
| Breast | 4,440 | 97.8 | 31 | 0.7 | 11 | 0.2 | 58 | 1.2 | 4,540 | 100.0 |
| Cervix Uteri | 796 | 98.4 | 11 | 1.4 | 1 | 0.1 | 1 | 0.1 | 809 | 100.0 |
| Corpus Uteri | 633 | 90.6 | 62 | 8.9 | 0 | 0.0 | 4 | 0.6 | 699 | 100.0 |
| Other Female Genital | 504 | 84.8 | 74 | 12.5 | 1 | 0.2 | 15 | 2.5 | 594 | 100.0 |
| Prostate | 3,725 | 99.5 | 0 | 0.0 | 0 | 0.0 | 20 | 0.5 | 3,745 | 100.0 |
| Other Male Genital | 30 | 12.7 | 194 | 82.2 | 10 | 4.2 | 2 | 0.8 | 236 | 100.0 |
| Urinary Bladder | 1,134 | 96.7 | 31 | 2.6 | 0 | 0.0 | 8 | 0.7 | 1,173 | 100.0 |
| Kidney & Other Urinary | 715 | 95.5 | 9 | 1.2 | 3 | 0.4 | 22 | 2.9 | 749 | 100.0 |
| Eye, Brain & Other Nervous System | 7 | 1.6 | 361 | 89.0 | 40 | 9.3 | 22 | 5.1 | 430 | 100.0 |
| Lymph Nodes | 0 | 0.0 | 0 | 0.0 | 782 | 100.0 | 0 | 0.0 | 782 | 100.0 |
| Leukemia | 0 | 0.0 | 0 | 0.0 | 646 | 100.0 | 0 | 0.0 | 646 | 100.0 |
| All Others | 507 | 43.6 | 243 | 20.9 | 321 | 27.6 | 91 | 7.8 | 1,162 | 100.0 |
| All Reportable Sites | 20,962 | 81.5 | 2,109 | 8.2 | 2,016 | 7.8 | 642 | 2.5 | 25,729 | 100.0 |

Notes: Percents may not add to 100 due to rounding.

See Technical Notes at the end of this report for the individual sites included in each site group.

- Tumor cell type is often closely related to the type of tissue in which the tumor originated. The majority of cancers reported (81%) were solid tumors such as carcinomas (developing from epithelial cells in the skin or organ surface) and adenocarcinomas (tumors developed from glandular tissue).
- Other solid tumors include sarcomas (originating from bone, cartilage, fat, muscle, or other connective tissue), nerve cell and germ cell tumors. Lymphomas, leukemias and plasma cell tumors are nonsolid tumors.

Table 12. Number and Rates of Cancer Deaths by Site Group and Sex, Rates Age-Adjusted to the 1970 and 2000 U.S. Standard Populations, Wisconsin, 1999

| | l | MALE | | Fl | EMALE | ; | - | ΓΟΤΑL | |
|-----------------------------------|--------|-------|--------|--------|-------|--------|--------|-------|--------|
| PRIMARY SITE | Number | Rate* | Rate** | Number | Rate* | Rate** | Number | Rate* | Rate** |
| Mouth & Pharynx | 95 | 3.3 | 3.9 | 47 | 1.2 | 1.5 | 142 | 2.2 | 2.6 |
| Stomach | 130 | 4.3 | 5.5 | 73 | 1.7 | 2.2 | 203 | 2.9 | 3.6 |
| Colorectal | 601 | 20.2 | 25.8 | 568 | 11.8 | 16.8 | 1,169 | 16.0 | 20.7 |
| Pancreas | 273 | 9.3 | 11.6 | 303 | 7.3 | 9.2 | 576 | 8.3 | 10.3 |
| Other Gastrointestinal Tract | 409 | 14.0 | 17.2 | 216 | 5.2 | 6.6 | 625 | 9.1 | 11.2 |
| Trachea, Bronchus & Lung | 1,553 | 54.3 | 65.3 | 1,089 | 30.4 | 35.4 | 2,642 | 40.8 | 48.0 |
| Other Respiratory | 71 | 2.5 | 2.9 | 23 | 0.6 | 0.7 | 94 | 1.5 | 1.7 |
| Bone & Connective Tissue | 57 | 2.0 | 2.6 | 51 | 1.3 | 1.6 | 108 | 1.6 | 1.9 |
| Melanoma of Skin | 90 | 3.0 | 3.8 | 52 | 1.4 | 1.7 | 142 | 2.1 | 2.6 |
| Breast | 10 | 0.3 | 0.4 | 824 | 21.4 | 26.3 | 834 | 11.9 | 14.9 |
| Cervix Uteri | - | - | - | 67 | 1.9 | 2.3 | 67 | 1.0 | 1.2 |
| Corpus Uteri | - | - | - | 73 | 1.7 | 2.2 | 73 | 1.0 | 1.3 |
| Other Female Genital | - | - | - | 359 | 9.4 | 11.4 | 359 | 5.2 | 6.4 |
| Prostate | 681 | 21.0 | 31.4 | - | - | - | 681 | 8.2 | 11.7 |
| Other Male Genital | 13 | 0.4 | 0.5 | - | - | - | 13 | 0.2 | 0.2 |
| Urinary Bladder | 159 | 5.2 | 7.0 | 82 | 1.7 | 2.4 | 241 | 3.1 | 4.2 |
| Kidney & Other Urinary | 177 | 6.0 | 7.5 | 85 | 2.2 | 2.7 | 262 | 3.9 | 4.7 |
| Eye, Brain & Other Nervous System | 151 | 5.3 | 6.0 | 106 | 3.0 | 3.6 | 257 | 4.1 | 4.7 |
| Lymph Nodes | 294 | 9.8 | 12.5 | 247 | 6.3 | 7.6 | 541 | 7.8 | 9.7 |
| Leukemia | 257 | 8.4 | 11.1 | 212 | 5.3 | 6.6 | 469 | 6.6 | 8.4 |
| All Others | 658 | 22.2 | 28.2 | 575 | 13.3 | 17.2 | 1,233 | 17.2 | 21.8 |
| Total Cancer Deaths | 5,679 | 191.9 | 243.2 | 5,052 | 128.1 | 158.0 | 10,731 | 154.7 | 192.1 |

Notes: Male rates are deaths per 100,000 male residents, female rates are deaths per 100,000 female residents and total rates are deaths per 100,000 residents.

See Technical Notes at the end of this report for the individual sites included in each site group.

- * Age-adjusted to the 1970 U.S. standard population
- ** Age-adjusted to the 2000 U.S. standard population
- The male mortality rate for all cancers (243 per 100,000 population, based on the 2000 standard) was higher than the female rate (158 per 100,000 population). Males had a higher mortality rate for all cancer sites (except sex-specific sites), which paralleled their higher cancer incidence.
- Table 12 shows two sets of 1999 age-adjusted rates cancer mortality rates, one based on the 1970 standard population and one based on the 2000 standard population. The difference in rates introduced by the change in standard populations varied by sex, with a 27 percent increase in the total cancer mortality rate for males and a 23 percent increase in the total cancer mortality rate for females.

Table 13. Number and Percent of Cancer Deaths by Site Group and Race: Males, Wisconsin, 1999

| | | | Afri | can | Amer | ican | Asian/ | Pacific | | |
|------------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| | Wh | ite | Ame | rican | Indi | an | Isla | nder | То | tal |
| PRIMARY SITE | Number | Percent |
| Mouth & Pharynx | 89 | 1.6 | 5 | 2.5 | 1 | 5.6 | 0 | 0.0 | 95 | 1.7 |
| Stomach | 110 | 2.0 | 14 | 6.9 | 2 | 11.1 | 4 | 17.4 | 130 | 2.3 |
| Colorectal | 585 | 10.8 | 13 | 6.4 | 2 | 11.1 | 1 | 4.3 | 601 | 10.6 |
| Pancreas | 261 | 4.8 | 10 | 4.9 | 1 | 5.6 | 1 | 4.3 | 273 | 4.8 |
| Other Gastrointestinal Tract | 389 | 7.2 | 18 | 8.9 | 1 | 5.6 | 1 | 4.3 | 409 | 7.2 |
| Trachea, Bronchus & Lung | 1,475 | 27.1 | 63 | 31.0 | 6 | 33.3 | 9 | 39.1 | 1,553 | 27.4 |
| Other Respiratory | 64 | 1.2 | 7 | 3.4 | 0 | 0.0 | 0 | 0.0 | 71 | 1.2 |
| Bone & Connective Tissue | 53 | 1.0 | 4 | 2.0 | 0 | 0.0 | 0 | 0.0 | 57 | 1.0 |
| Melanoma of Skin | 90 | 1.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 90 | 1.6 |
| Breast | 10 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 10 | 0.2 |
| Prostate | 661 | 12.2 | 18 | 8.9 | 1 | 5.6 | 1 | 4.3 | 681 | 12.0 |
| Other Male Genital | 13 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 13 | 0.2 |
| Urinary Bladder | 156 | 2.9 | 3 | 1.5 | 0 | 0.0 | 0 | 0.0 | 159 | 2.8 |
| Kidney & Other Urinary | 171 | 3.1 | 4 | 2.0 | 2 | 11.1 | 0 | 0.0 | 177 | 3.1 |
| Eye, Brain & Other Nervous | 147 | 2.7 | 1 | 0.5 | 1 | 5.6 | 2 | 8.7 | 151 | 2.7 |
| System | | | | | | | | | | |
| Lymph Nodes | 286 | 5.3 | 7 | 3.4 | 1 | 5.6 | 0 | 0.0 | 294 | 5.2 |
| Leukemia | 248 | 4.6 | 8 | 3.9 | 0 | 0.0 | 1 | 4.3 | 257 | 4.5 |
| All Others | 627 | 11.5 | 28 | 13.8 | 0 | 0.0 | 3 | 13.0 | 658 | 11.6 |
| Total Cancer Deaths | 5,435 | 100.0 | 203 | 100.0 | 18 | 100.0 | 23 | 100.0 | 5,679 | 100.0 |

Notes: Percents are calculated from the total number of cancer deaths in each race category. Numbers of deaths reported for minority race/ethnicity groups are small; therefore percents based on those numbers are subject to large random variation. See Technical Notes at the end of this report for the individual sites included in each site group.

- The leading sites of cancer deaths among Wisconsin males, for all races combined, were lung cancer (27%), prostate cancer (12%), and colorectal cancer (11%).
- Lung cancer was the leading cause of cancer deaths in males of all racial groups. Prostate cancer was the second leading cause of cancer deaths for white and African American males while stomach cancer was the second leading cause of cancer deaths for American Indian and Asian/Pacific Islander males.

Table 14. Number and Percent of Cancer Deaths by Site Group and Race: Females, Wisconsin, 1999

| | | | Afri | can | Ame | rican | Asian/ | Pacific | | |
|------------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| | Wh | ite | Amer | ican | Ind | ian | Isla | nder | To | tal |
| PRIMARY SITE | Number | Percent |
| Mouth & Pharynx | 46 | 1.0 | 0 | 0.0 | 0 | 0.0 | 1 | 5.3 | 47 | 0.9 |
| Stomach | 66 | 1.4 | 5 | 2.9 | 0 | 0.0 | 2 | 10.5 | 73 | 1.4 |
| Colorectal | 544 | 11.2 | 19 | 11.1 | 3 | 15.0 | 2 | 10.5 | 568 | 11.2 |
| Pancreas | 288 | 5.9 | 14 | 8.1 | 1 | 5.0 | 0 | 0.0 | 303 | 6.0 |
| Other Gastrointestinal Tract | 205 | 4.2 | 7 | 4.1 | 1 | 5.0 | 3 | 15.8 | 216 | 4.3 |
| Trachea, Bronchus & Lung | 1,039 | 21.5 | 43 | 25.0 | 5 | 25.0 | 2 | 10.5 | 1,089 | 21.6 |
| Other Respiratory | 22 | 0.5 | 1 | 0.6 | 0 | 0.0 | 0 | 0.0 | 23 | 0.5 |
| Bone & Connective Tissue | 48 | 1.0 | 3 | 1.7 | 0 | 0.0 | 0 | 0.0 | 51 | 1.0 |
| Melanoma of Skin | 50 | 1.0 | 2 | 1.2 | 0 | 0.0 | 0 | 0.0 | 52 | 1.0 |
| Breast | 785 | 16.2 | 32 | 18.6 | 5 | 25.0 | 2 | 10.5 | 824 | 16.3 |
| Cervix Uteri | 60 | 1.2 | 4 | 2.3 | 3 | 15.0 | 0 | 0.0 | 67 | 1.3 |
| Corpus Uteri | 70 | 1.4 | 2 | 1.2 | 0 | 0.0 | 1 | 5.3 | 73 | 1.4 |
| Other Female Genital | 352 | 7.3 | 5 | 2.9 | 0 | 0.0 | 2 | 10.5 | 359 | 7.1 |
| Urinary Bladder | 78 | 1.6 | 3 | 1.7 | 0 | 0.0 | 1 | 5.3 | 82 | 1.6 |
| Kidney & Other Urinary | 84 | 1.7 | 1 | 0.6 | 0 | 0.0 | 0 | 0.0 | 85 | 1.7 |
| Eye, Brain & Other Nervous | 102 | 2.1 | 4 | 2.3 | 0 | 0.0 | 0 | 0.0 | 106 | 2.1 |
| System | | | | | | | | | | |
| Lymph Nodes | 239 | 4.9 | 7 | 4.1 | 0 | 0.0 | 1 | 5.3 | 247 | 4.9 |
| Leukemia | 205 | 4.2 | 7 | 4.1 | 0 | 0.0 | 0 | 0.0 | 212 | 4.2 |
| All Others | 558 | 11.5 | 13 | 7.6 | 2 | 10.0 | 2 | 10.5 | 575 | 11.4 |
| Total Cancer Deaths | 4,841 | 100.0 | 172 | 100.0 | 20 | 100.0 | 19 | 100.0 | 5,052 | 100.0 |

Notes: Percents are calculated from the total number of cancer deaths in each race category. Numbers of deaths reported for minority race/ethnicity groups are small; therefore percents based on those numbers are subject to large random variation. See Technical Notes at the end of this report for the individual sites included in each site group.

• The three leading sites of cancer deaths among Wisconsin females, for all races combined, were lung cancer (22%), breast cancer (16%) and colorectal cancer (11%).

Table 15. Number and Age-Adjusted Rate of Cancer Deaths by Major Site Group and Region, Wisconsin, 1999

| | | , | | DHFS REGI | ON | | |
|------------------------------|---------|-------|-----------|--------------|-------|-------|--------|
| PRIMARY SITE | | SOUTH | SOUTHEAST | NORTHEAST | WEST | NORTH | TOTAL |
| Colorectal | Number | 208 | 434 | 235 | 182 | 110 | 1,169 |
| | Rate | 21.5 | 21.8 | 18.3 | 22.4 | 18.8 | 20.7 |
| | | | | | | | |
| Other Gastrointestinal Tract | Number | 244 | 615 | 339 | 187 | 161 | 1,546 |
| | Rate | 25.3 | 31.1 | 26.9 | 23.1 | 28.3 | 27.7 |
| | | | 4 000 | ~ 0.4 | | | |
| Respiratory | Number | 425 | 1,093 | 584 | 361 | 273 | 2,736 |
| | Rate | 44.8 | 55.7 | 47.0 | 46.3 | 48.3 | 49.7 |
| Breast | Number | 140 | 307 | 193 | 112 | 82 | 834 |
| Dicust | Rate | 14.5 | 15.3 | 15.3 | 14.0 | 14.8 | 14.9 |
| | Rute | 14.5 | 13.3 | 13.3 | 14.0 | 14.0 | 14.7 |
| Female Genital | Number | 79 | 178 | 129 | 76 | 37 | 499 |
| | Rate | 8.2 | 9.0 | 10.3 | 9.3 | 6.6 | 9.0 |
| | | | | | | | |
| Male Genital | Number | 126 | 218 | 159 | 116 | 75 | 694 |
| | Rate | 12.8 | 10.8 | 12.0 | 13.2 | 12.4 | 12.0 |
| | | | | | | | |
| Urinary Tract | Number | 80 | 196 | 97 | 74 | 56 | 503 |
| | Rate | 8.2 | 9.9 | 7.7 | 9.0 | 9.9 | 9.0 |
| I: | Manakan | 105 | 250 | 220 | 150 | 97 | 1.010 |
| Lymphoma & Leukemia | Number | 185 | 358 | 229 | 152 | 86 | 1,010 |
| | Rate | 19.1 | 18.0 | 18.2 | 18.7 | 14.9 | 18.0 |
| All Others | Number | 290 | 613 | 430 | 254 | 153 | 1,740 |
| | Rate | 30.2 | 30.8 | 33.9 | 31.3 | 26.5 | 31.1 |
| | | | | 3.015 | | ,,, | |
| Total Cancer Deaths | Number | 1,777 | 4,012 | 2,395 | 1,514 | 1,033 | 10,731 |
| | Rate | 184.7 | 202.4 | 189.6 | 187.4 | 180.6 | 192.1 |

Notes: Rates are deaths per 100,000 residents, age-adjusted to the 2000 U.S. standard population.

The regions used are the Department of Health and Family Services Regions; see Map on page 63 for regional boundaries.

See Technical Notes at the end of this report for the individual sites included in each major site group.

• Regional age-adjusted cancer mortality rates ranged from 181 per 100,000 population in the Northern region to 202 per 100,000 population in the Southeastern region. The statewide rate was 192 per 100,000 population.

Table 16. Number and Age-Adjusted Rate of Cancer Deaths by Major Site Group, Counties Over 100,000 Population, Wisconsin, 1999

| Primary Site | | Brown | Dane | Kenosha | La Crosse | Marathon | Milwaukee | Outagamie |
|---------------------|--------|-------|-------|---------|-----------|----------|-----------|-----------|
| Colorectal | Number | 25 | 68 | 33 | 20 | 21 | 208 | 30 |
| | Rate | 12.4 | 20.4 | 23.7 | 18.5 | 15.5 | 21.4 | 20.3 |
| Other Gastro- | Number | 61 | 77 | 41 | 27 | 33 | 299 | 33 |
| Intestinal Tract | Rate | 29.4 | 22.8 | 29.2 | 25.4 | 24.8 | 31.3 | 22.2 |
| Respiratory | Number | 87 | 140 | 92 | 54 | 53 | 567 | 68 |
| | Rate | 42.7 | 42.8 | 66.9 | 52.5 | 40.1 | 60.1 | 46.3 |
| Breast | Number | 33 | 50 | 17 | 15 | 21 | 159 | 14 |
| | Rate | 15.5 | 14.4 | - | - | 16.1 | 16.5 | - |
| Female Genital | Number | 27 | 29 | 8 | 9 | 5 | 89 | 20 |
| | Rate | 12.9 | 8.7 | - | - | - | 9.3 | 13.7 |
| Male Genital | Number | 20 | 42 | 13 | 11 | 16 | 108 | 21 |
| | Rate | 9.5 | 12.8 | - | - | - | 10.7 | 14.0 |
| Urinary Tract | Number | 21 | 23 | 8 | 7 | 16 | 99 | 13 |
| | Rate | 10.2 | 7.0 | - | - | - | 10.2 | - |
| Leukemia & | Number | 39 | 73 | 28 | 25 | 23 | 174 | 24 |
| Lymph Nodes | Rate | 18.8 | 21.4 | 20.1 | 23.5 | 17.2 | 18.1 | 16.2 |
| All Others | Number | 59 | 107 | 32 | 37 | 37 | 297 | 48 |
| | Rate | 28.1 | 31.4 | 22.7 | 35.6 | 27.8 | 31.1 | 31.7 |
| Total Cancer Deaths | Number | 372 | 609 | 272 | 205 | 225 | 2,000 | 271 |
| | Rate | 179.5 | 181.7 | 195.4 | 194.5 | 169.5 | 208.8 | 182.9 |

Source:

1999 Wisconsin resident death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: Rates are deaths per 100,000 residents, age-adjusted to the 2000 U.S. population standard.

Rates for fewer than 20 deaths are omitted because they are subject to large random variation. See Technical Notes at the end of this report for the individual sites included in each major site group. In this table, the major site group "Other Gastrointestinal Tract" includes the site group "Mouth and Pharynx."

(Table continued on next page)

Table 16. Number and Age-Adjusted Rate of Cancer Deaths by Major Site Group, Counties Over 100,000 Population, Wisconsin, 1999 (continued)

| Primary Site | | Racine | Rock | Sheboygan | Waukesha | Washington | Winnebago | State Total |
|---------------------|--------|--------|-------|-----------|----------|------------|-----------|-------------|
| Colorectal | Number | 40 | 33 | 29 | 70 | 17 | 30 | 1,169 |
| | Rate | 20.8 | 20.5 | 21.5 | 22.0 | - | 18.5 | 20.7 |
| Other Gastro- | Number | 60 | 36 | 33 | 115 | 26 | 57 | 1,546 |
| Intestinal Tract | Rate | 31.3 | 22.2 | 24.9 | 35.1 | 24.3 | 35.0 | 27.7 |
| Respiratory | Number | 101 | 81 | 50 | 165 | 47 | 72 | 2,736 |
| | Rate | 52.6 | 50.4 | 39.6 | 50.2 | 43.5 | 44.8 | 49.7 |
| Breast | Number | 25 | 19 | 24 | 55 | 12 | 25 | 834 |
| | Rate | 12.9 | - | 19.5 | 16.0 | - | 14.9 | 14.9 |
| Female Genital | Number | 15 | 10 | 12 | 28 | 7 | 16 | 499 |
| | Rate | - | - | - | 8.6 | - | - | 9.0 |
| Male Genital | Number | 18 | 15 | 9 | 39 | 18 | 16 | 694 |
| | Rate | - | - | - | 12.8 | - | - | 12.0 |
| Urinary Tract | Number | 17 | 12 | 6 | 34 | 13 | 11 | 503 |
| | Rate | - | - | - | 10.5 | - | - | 9.0 |
| Leukemia & | Number | 31 | 22 | 14 | 57 | 17 | 34 | 1,010 |
| Lymph Nodes | Rate | 16.1 | 13.9 | - | 17.2 | - | 20.8 | 18.0 |
| All Others | Number | 69 | 39 | 42 | 120 | 25 | 58 | 1,740 |
| | Rate | 36.0 | 24.2 | 34.0 | 37.2 | 22.8 | 35.4 | 31.1 |
| Total Cancer Deaths | Number | 376 | 267 | 219 | 683 | 182 | 319 | 10,731 |
| | Rate | 195.8 | 165.8 | 171.0 | 209.6 | 169.4 | 196.2 | 192.1 |

Source:

1999 Wisconsin resident death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note:

Rates are deaths per 100,000 residents, age-adjusted to the 2000 U.S. population standard. Rates for fewer than 20 deaths are omitted because they are subject to large random variation. See Technical Notes at the end of this report for the individual sites included in each major site group. In this table, the major site group "Other Gastrointestinal Tract" includes the site group "Mouth and Pharynx."

• The 1999 age-adjusted cancer mortality rates for the 13 most populous counties ranged from 166 per 100,000 population in Rock County to 210 per 100,000 population in Waukesha County. The statewide rate was 192 per 100,000.

Table 17. Number of Cancer Deaths by Site Group, Age and Sex, Wisconsin, 1999

| | | | | | | | | AC | BE Al | ND SE | EX | | | | |
|--------------------------------------|--------|-------|---------|------|----|------|---|------|-------|-------|----|------|----|-----|-----|
| | | | | 0-19 |) | 20-2 | 4 | 25-2 | 29 | 30-3 | 34 | 35-3 | 39 | 40- | 14 |
| PRIMARY SITE | Total | Males | Females | M | F | M | F | M | F | M | F | M | F | M | F |
| Mouth & Pharynx | 142 | 95 | 47 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Stomach | 203 | 130 | 73 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 5 | 2 |
| Colorectal | 1,169 | 601 | 568 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 8 | 8 |
| Pancreas | 576 | 273 | 303 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 2 |
| Other Gastrointestinal Tract | 625 | 409 | 216 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 5 | 4 | 9 | 0 |
| Trachea, Bronchus & Lung | 2,642 | 1,553 | 1,089 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 7 | 9 | 14 |
| Other Respiratory | 94 | 71 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Bone & Connective Tissue | 108 | 57 | 51 | 4 | 2 | 4 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 1 |
| Melanoma of Skin | 142 | 90 | 52 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 4 | 3 | 4 | 4 |
| Breast | 834 | 10 | 824 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 9 | 0 | 17 | 0 | 38 |
| Cervix Uteri | 67 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 8 | 0 | 5 |
| Corpus Uteri | 73 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other Female Genital | 359 | 0 | 359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 8 |
| Prostate | 681 | 681 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Other Male Genital | 13 | 13 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 3 | 0 | 1 | 0 |
| Urinary Bladder | 241 | 159 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Kidney & Other Urinary | 262 | 177 | 85 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 3 |
| Eye, Brain & Other Nervous System | 257 | 151 | 106 | 5 | 4 | 2 | 0 | 2 | 0 | 1 | 1 | 6 | 7 | 12 | 9 |
| Lymph Nodes | 541 | 294 | 247 | 2 | 3 | 4 | 2 | 0 | 1 | 6 | 2 | 3 | 0 | 9 | 3 |
| Leukemia | 469 | 257 | 212 | 6 | 2 | 0 | 0 | 2 | 1 | 1 | 5 | 5 | 3 | 10 | 2 |
| All Others | 1,233 | 658 | 575 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 5 | 11 | 7 |
| Total Cancer Deaths | 10,731 | 5,679 | 5,052 | 22 | 12 | 14 | 5 | 9 | 11 | 19 | 27 | 41 | 64 | 92 | 108 |

Note: Age groupings vary in this table; childhood cancers (0-19) are followed by 5-year groupings. See Technical Notes at the end of this report for the individual sites included in each site group.

(Table continued on next page)

Table 17. Number of Cancer Deaths by Site Group, Age and Sex, Wisconsin, 1999 (Continued)

| | AGE AND SEX | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|
| | 45-49 | | 50-54 | | 55-59 | | 60-64 | | 65-69 | | 70-74 | | 75-79 | | 80-84 | | 85+ | |
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| Mouth & Pharynx | 4 | 1 | 7 | 1 | 12 | 4 | 12 | 3 | 10 | 7 | 15 | 9 | 14 | 7 | 9 | 3 | 7 | 12 |
| Stomach | 10 | 0 | 4 | 1 | 12 | 4 | 10 | 2 | 13 | 9 | 21 | 13 | 10 | 11 | 28 | 15 | 14 | 14 |
| Colorectal | 22 | 15 | 34 | 12 | 33 | 23 | 51 | 30 | 78 | 60 | 90 | 68 | 109 | 87 | 88 | 81 | 82 | 177 |
| Pancreas | 8 | 5 | 12 | 10 | 25 | 17 | 26 | 16 | 31 | 38 | 60 | 40 | 43 | 53 | 35 | 64 | 27 | 56 |
| Other Gastrointestinal Tract | 23 | 2 | 21 | 7 | 27 | 11 | 44 | 11 | 51 | 22 | 78 | 37 | 55 | 42 | 52 | 34 | 40 | 45 |
| Trachea, Bronchus & Lung | 34 | 21 | 83 | 56 | 134 | 78 | 174 | 124 | 253 | 176 | 309 | 191 | 260 | 172 | 170 | 150 | 124 | 100 |
| Other Respiratory | 4 | 0 | 6 | 2 | 10 | 0 | 8 | 3 | 10 | 1 | 15 | 8 | 7 | 4 | 5 | 1 | 5 | 3 |
| Bone & Connective Tissue | 3 | 5 | 2 | 1 | 7 | 0 | 7 | 2 | 2 | 4 | 4 | 5 | 7 | 9 | 6 | 11 | 6 | 8 |
| Melanoma of Skin | 6 | 3 | 5 | 3 | 8 | 5 | 4 | 4 | 13 | 5 | 13 | 5 | 12 | 3 | 8 | 7 | 9 | 8 |
| Breast | 0 | 57 | 0 | 51 | 0 | 53 | 2 | 76 | 2 | 68 | 1 | 110 | 1 | 85 | 2 | 106 | 2 | 150 |
| Cervix Uteri | 0 | 5 | 0 | 8 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 8 | 0 | 5 | 0 | 7 |
| Corpus Uteri | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 4 | 0 | 10 | 0 | 8 | 0 | 15 | 0 | 14 | 0 | 15 |
| Other Female Genital | 0 | 10 | 0 | 22 | 0 | 21 | 0 | 33 | 0 | 44 | 0 | 43 | 0 | 69 | 0 | 55 | 0 | 50 |
| Prostate | 1 | 0 | 6 | 0 | 18 | 0 | 22 | 0 | 39 | 0 | 91 | 0 | 135 | 0 | 160 | 0 | 208 | 0 |
| Other Male Genital | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Urinary Bladder | 1 | 1 | 5 | 2 | 9 | 1 | 7 | 4 | 14 | 7 | 26 | 11 | 38 | 15 | 28 | 9 | 30 | 30 |
| Kidney & Other Urinary | 5 | 1 | 13 | 5 | 15 | 6 | 12 | 11 | 23 | 8 | 33 | 11 | 28 | 17 | 27 | 9 | 15 | 14 |
| Eye, Brain & Other Nervous System | 14 | 8 | 14 | 7 | 10 | 6 | 19 | 7 | 20 | 11 | 21 | 18 | 14 | 12 | 6 | 6 | 5 | 10 |
| Lymph Nodes | 9 | 7 | 22 | 11 | 17 | 13 | 16 | 26 | 36 | 23 | 45 | 30 | 47 | 34 | 43 | 41 | 35 | 51 |
| Leukemia | 9 | 7 | 11 | 4 | 11 | 12 | 15 | 16 | 23 | 20 | 42 | 31 | 40 | 35 | 36 | 28 | 46 | 46 |
| All Others | 20 | 14 | 23 | 14 | 43 | 27 | 70 | 42 | 86 | 46 | 100 | 80 | 104 | 83 | 113 | 105 | 83 | 151 |
| Total Cancer Deaths | 174 | 162 | 268 | 219 | 392 | 289 | 499 | 418 | 704 | 563 | 965 | 722 | 924 | 761 | 817 | 744 | 739 | 947 |

Note: Age groupings vary in this table; childhood cancers (0-19) are followed by 5-year groupings. See Technical Notes at the end of this report for the individual sites included in each site group.

• Following incidence patterns, the mortality distributions above show that cancer deaths rise with age for most cancers. Seventy-three percent of 1999 cancer deaths occurred in those aged 65 or older.

Table 18. Number of Cancer Deaths by Race, Age and Sex, Wisconsin, 1999

| | | | | AGE | GROUP | | | |
|------------------------|--------|---------|---------|---------|---------|---------|-------|--------|
| | 0 – 14 | 15 - 24 | 25 - 44 | 45 - 64 | 65 - 74 | 75 - 84 | 85 + | TOTAL |
| MALES | | | | | | | | |
| White | 13 | 21 | 138 | 1,238 | 1,598 | 1,699 | 728 | 5,435 |
| African American | 1 | 1 | 19 | 80 | 56 | 37 | 9 | 203 |
| American Indian | 0 | 0 | 1 | 7 | 8 | 2 | 0 | 18 |
| Asian/Pacific Islander | 0 | 0 | 3 | 8 | 7 | 3 | 2 | 23 |
| Total Males | 14 | 22 | 161 | 1,333 | 1,669 | 1,741 | 739 | 5,679 |
| FEMALES | | | | | | | | |
| White | 7 | 8 | 185 | 1,007 | 1,229 | 1,474 | 931 | 4,841 |
| African American | 2 | 0 | 22 | 65 | 47 | 24 | 12 | 172 |
| American Indian | 0 | 0 | 3 | 9 | 4 | 2 | 2 | 20 |
| Asian/Pacific Islander | 0 | 0 | 0 | 7 | 5 | 5 | 2 | 19 |
| Total Females | 9 | 8 | 210 | 1,088 | 1,285 | 1,505 | 947 | 5,052 |
| TOTAL | | | | | | | | |
| White | 20 | 29 | 323 | 2,245 | 2,827 | 3,173 | 1,659 | 10,276 |
| African American | 3 | 1 | 41 | 145 | 103 | 61 | 21 | 375 |
| American Indian | 0 | 0 | 4 | 16 | 12 | 4 | 2 | 38 |
| Asian/Pacific Islander | 0 | 0 | 3 | 15 | 12 | 8 | 4 | 42 |
| Total | 23 | 30 | 371 | 2,421 | 2,954 | 3,246 | 1,686 | 10,731 |

• In general, African Americans died of cancer at a younger age than did whites in 1999. Approximately one-half of African American cancer deaths (both sexes) occurred before age 65, compared with only one-fourth of white cancer deaths.

Table 19. Cancer Deaths by Average Number of Months Between Diagnosis and Death and Age at Diagnosis, Wisconsin, 1999

| and rige at Di | <u> </u> | | | T DIAGNO | OSIS IN Y | EARS | | |
|------------------------------|----------|--------|--------|----------|-----------|--------|--------|--------|
| | UND | ER 65 | 65 | - 74 | 75 - | 84 | 85 ANI | OVER |
| PRIMARY SITE | Deaths | Months | Deaths | Months | Deaths | Months | Deaths | Months |
| Mouth & Pharynx | 121 | 40.3 | 79 | 29.4 | 35 | 32.2 | 10 | - |
| Stomach | 86 | 17.0 | 71 | 20.4 | 74 | 16.3 | 28 | 10.9 |
| Colorectal | 348 | 43.7 | 362 | 37.9 | 323 | 26.9 | 164 | 20.3 |
| Pancreas | 127 | 12.3 | 148 | 8.2 | 153 | 5.8 | 51 | 3.1 |
| Other Gastrointestinal Tract | 162 | 14.9 | 155 | 15.3 | 146 | 11.2 | 44 | 5.0 |
| Trachea, Bronchus & Lung | 768 | 16.3 | 854 | 14.5 | 571 | 10.6 | 114 | 5.6 |
| Other Respiratory | 70 | 49.4 | 45 | 37.9 | 36 | 23.2 | 7 | - |
| Bone & Connective Tissue | 45 | 42.1 | 15 | - | 23 | 22.5 | 4 | - |
| Melanoma of Skin | 65 | 56.0 | 39 | 52.2 | 22 | 24.0 | 12 | - |
| Breast | 430 | 74.8 | 206 | 81.3 | 171 | 51.6 | 58 | 30.8 |
| Cervix Uteri | 49 | 61.6 | 13 | - | 10 | - | 5 | - |
| Corpus Uteri | 48 | 83.8 | 41 | 47.9 | 36 | 44.6 | 14 | - |
| Other Female Genital | 108 | 47.4 | 77 | 32.3 | 75 | 15.6 | 19 | - |
| Prostate | 127 | 85.0 | 316 | 81.4 | 284 | 59.1 | 66 | 29.1 |
| Other Male Genital | 13 | - | 1 | - | 4 | - | 0 | - |
| Urinary Bladder | 56 | 61.6 | 113 | 56.9 | 77 | 38.7 | 45 | 16.6 |
| Kidney & Other Urinary | 99 | 45.4 | 85 | 43.6 | 70 | 24.2 | 13 | - |
| Eye, Brain & Other Nervous | 149 | 39.5 | 63 | 13.0 | 29 | 11.2 | 8 | - |
| System | | | | | | | | |
| Lymph Nodes | 143 | 60.1 | 94 | 46.0 | 92 | 23.9 | 45 | 8.4 |
| Leukemia | 205 | 43.0 | 164 | 38.1 | 158 | 25.3 | 68 | 15.8 |
| All Others | 120 | 27.4 | 113 | 12.1 | 144 | 10.3 | 61 | 5.1 |
| Total | 3,339 | 41.4 | 3,054 | 35.7 | 2,533 | 25.1 | 836 | 14.9 |

Notes: This table includes cancer deaths (where cancer was listed as the underlying cause of death on the death certificate) that occurred among Wisconsin residents in 1999 and matched a reported cancer diagnosis filed with the Wisconsin Cancer Reporting System since 1978. *Each tumor is counted separately for persons with multiple tumors*. See Technical Notes on page 51 for the criteria used to determine a match between the incidence and death reports. Average months-to-death based on fewer than 20 deaths are omitted because of potential large random fluctuations. See Technical Notes at the end of this report for the individual sites included in each major site group.

• For 1999 cancer deaths, the average number of months from the time of diagnosis until death decreased as age at diagnosis increased: 41 months for cases diagnosed before age 65, to 15 months for cases diagnosed at ages 85 and older.

Table 20. Cancer Deaths by Average Number of Months Between Diagnosis and Death and Stage of Disease at Diagnosis, Wisconsin, 1999

| | | | ST | AGE OF | DISEAS | SE | | |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | IN SI | TU & | | | | | | |
| | LOG | CAL | REG | ONAL | DIST | ΓΑΝΤ | NOT S | TATED |
| PRIMARY SITE | Deaths | Months | Deaths | Months | Deaths | Months | Deaths | Months |
| Mouth & Pharynx | 78 | 46.9 | 130 | 30.2 | 21 | 15.6 | 16 | - |
| Stomach | 41 | 24.3 | 106 | 25.5 | 85 | 5.6 | 27 | 9.3 |
| Colorectal | 235 | 62.4 | 471 | 37.3 | 399 | 15.5 | 92 | 40.7 |
| Pancreas | 59 | 10.0 | 148 | 10.0 | 221 | 5.0 | 51 | 39.0 |
| Other Gastrointestinal Tract | 126 | 16.2 | 146 | 12.2 | 166 | 8.7 | 69 | 19.9 |
| Trachea, Bronchus & Lung | 387 | 27.5 | 656 | 16.6 | 1,096 | 7.2 | 168 | 12.7 |
| Other Respiratory | 65 | 52.3 | 58 | 29.2 | 15 | - | 20 | 33.8 |
| Bone & Connective Tissue | 33 | 45.3 | 16 | - | 26 | 12.7 | 12 | - |
| Melanoma of Skin | 78 | 53.8 | 21 | 43.3 | 23 | 11.0 | 16 | - |
| Breast | 316 | 80.9 | 349 | 74.6 | 141 | 29.6 | 59 | 63.5 |
| Cervix Uteri | 25 | 83.2 | 31 | 52.3 | 17 | - | 4 | - |
| Corpus Uteri | 68 | 77.9 | 37 | 47.1 | 26 | 11.0 | 8 | - |
| Other Female Genital | 38 | 58.5 | 75 | 38.8 | 142 | 24.0 | 24 | 25.5 |
| Prostate | 391 | 79.1 | 134 | 78.6 | 167 | 43.9 | 101 | 63.7 |
| Other Male Genital | 5 | - | 4 | - | 9 | - | 0 | - |
| Urinary Bladder | 174 | 63.5 | 64 | 20.7 | 32 | 11.8 | 21 | 41.3 |
| Kidney & Other Urinary | 63 | 77.4 | 56 | 40.5 | 130 | 12.6 | 18 | - |
| Eye, Brain & Other Nervous | 174 | 27.1 | 40 | 29.5 | 8 | - | 27 | 39.7 |
| System | | | | | | | | |
| Lymph Nodes | 54 | 54.0 | 62 | 32.2 | 170 | 33.1 | 88 | 56.3 |
| Leukemia | 0 | - | 0 | - | 595 | 35.5 | 0 | - |
| All Others | 30 | 73.3 | 23 | 22.7 | 171 | 10.0 | 214 | 9.4 |
| Total | 2,440 | 55.0 | 2,627 | 35.0 | 3,660 | 15.1 | 1,035 | 33.0 |

Notes: This table includes those cancer deaths (where cancer was listed as the underlying cause of death on the death certificate) that occurred among Wisconsin residents in 1999 and matched a reported cancer diagnosis filed with the Wisconsin Cancer Reporting System since 1978. *Each tumor is counted separately for persons with multiple tumors*. See Technical Notes on page 51 for the criteria used to determine a match between incidence and death reports. Average months-to-death based on fewer than 20 deaths are omitted because of potential large random fluctuations. See Technical Notes at the end of this report for the individual sites included in each major site group.

• For 1999 cancer deaths, the average survival time was more than three times as long when the cancer was diagnosed at the local stage (55 months) as when the cancer was diagnosed at the distant stage (15 months).

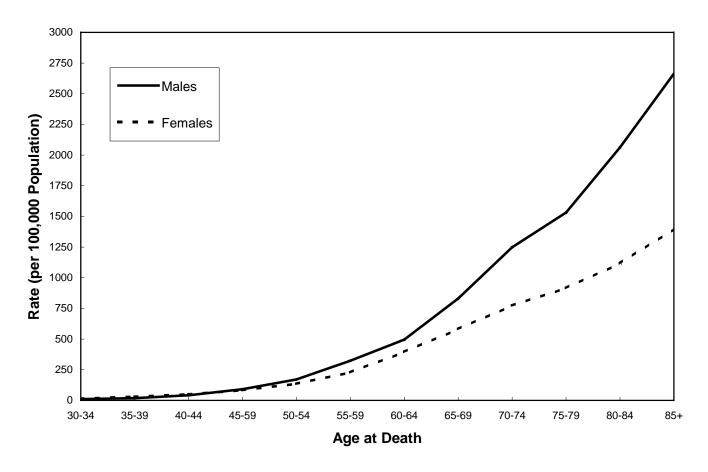


Figure 4. Age-Specific Cancer Mortality Rates, by Sex, Wisconsin, 1999

• Cancer mortality rates rise steadily with age for both males and females. After age 50, the male mortality rate is higher than the female mortality rate; the difference increases sharply with age.

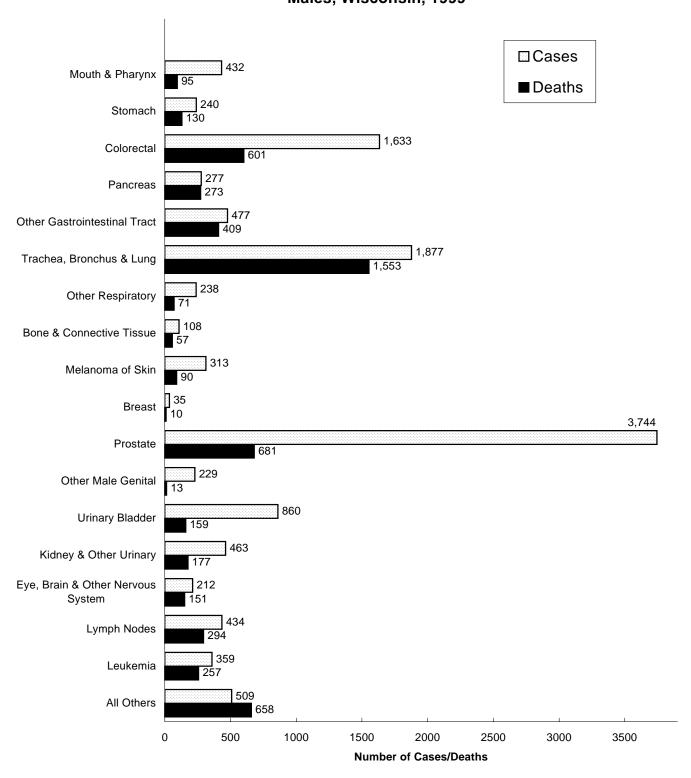


Figure 5. Number of *Invasive* Cancer Cases and Deaths by Site Group: Males, Wisconsin, 1999

Source: Wisconsin Cancer Reporting System and the 1999 Wisconsin resident death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services. See Technical Notes on page 53 for incidence to mortality comparison information.

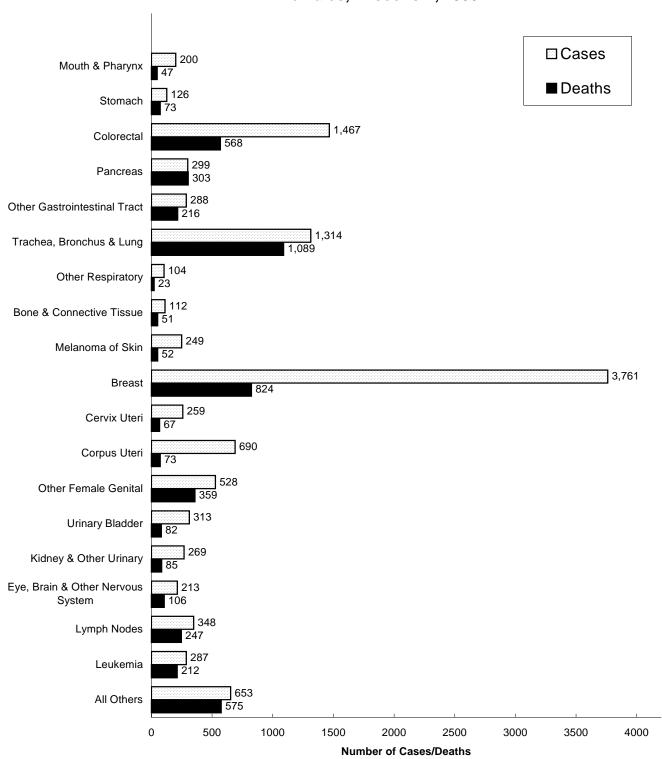


Figure 6. Number of *Invasive* Cancer Cases and Deaths by Site Group: Females, Wisconsin, 1999

Source: Wisconsin Cancer Reporting System and the 1999 Wisconsin resident death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services. See Technical Notes on page 53 for incidence to mortality comparison information.

34.7 Other Male Genital Bone & Connective Tissue 24.2 Eye, Brain & Other Nervous 24.0 System Melanoma of Skin 19.7 18.1 Mouth & Pharynx Other Respiratory 17.9 Lymph Nodes 16.8 Stomach 16.6 16.6 Other Gastrointestinal Tract 16.4 Leukemia Kidney & Other Urinary 16.0 15.3 Trachea, Bronchus & Lung **Pancreas** 15.2 Colorectal 14.2 **Breast** 12.5 Urinary Bladder 12.2 Prostate 9.8 All Others 14.7 0 5 10 15 20 25 30 35 40 Years of Potential Life Lost

Figure 7. Average Years of Potential Life Lost Due to Cancer Mortality by Site Group: Males, Wisconsin, 1999

1999 Wisconsin resident death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and

Family Services.

Note: See pages 51 and 54 for information on calculating the average years of potential life lost.

Cervix Uteri 27.6 Eye, Brain & Other Nervous 25.6 System 23.3 Melanoma of Skin Bone & Connective Tissue 21.2 Breast 19.9 Trachea, Bronchus & Lung 18.1 Kidney & Other Urinary 17.7 Other Female Genital 17.6 Other Respiratory 17.6 Lymph Nodes 17.4 Leukemia 17.4 Stomach 15.8 15.6 Mouth & Pharynx Pancreas 15.4 Other Gastrointestinal Tract 15.3 Corpus Uteri 14.9 Colorectal 14.3 Urinary Bladder 13.4 All Others 14.9 5 10 25 30 **Years of Potential Life Lost**

Figure 8. Average Years of Potential Life Lost Due to Cancer Mortality by Site Group: Females, Wisconsin, 1999

Family Services.

Note: See pages 51 and 54 for information on calculating the average years of potential life lost.

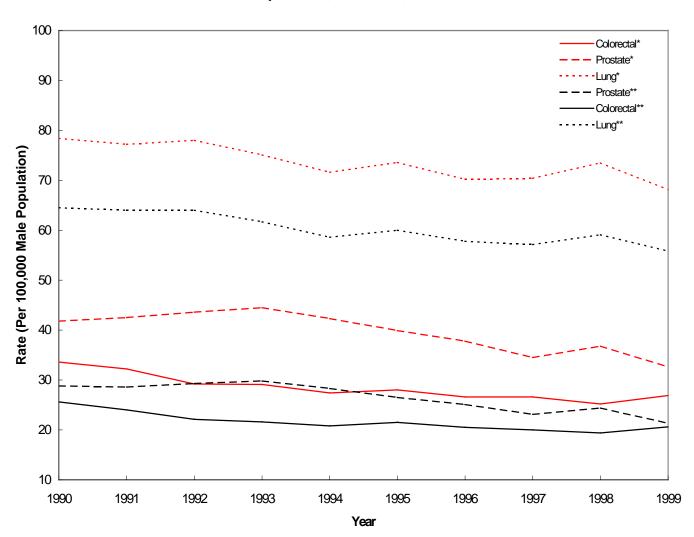


Figure 9. Male Cancer Mortality Rates, Age-Adjusted to the 1970 and 2000 Standard Populations, Wisconsin, 1990-1999

^{*} Rates age-adjusted to the 2000 U.S. standard population.

^{**} Rates age-adjusted to the 1970 U.S. standard population.

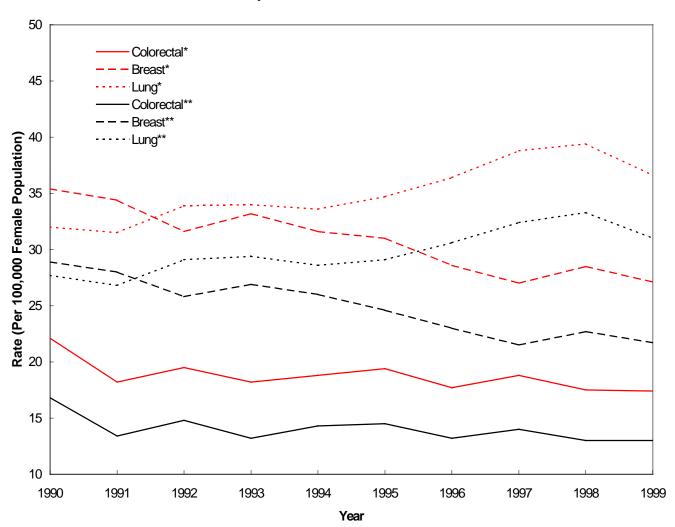


Figure 10. Female Cancer Mortality Rates, Age-Adjusted to the 1970 and 2000 Standard Populations, Wisconsin, 1990-1999

^{*} Rates age-adjusted to the 2000 U.S. standard population.

^{**} Rates age-adjusted to the 1970 U.S. standard population.

Technical Notes

Cancer Reporting Statute (s. 255.04, Wisconsin Statutes)

- (1) Any hospital, as defined under s. 50.33(2), Wis. Stats., any physician and any laboratory certified under 42 USC 263a shall report information concerning any person diagnosed as having cancer or a precancerous condition to the department as prescribed by the department under sub. (2).
- (2) The department shall prescribe:
 - (a) The form on which the report under sub. (1) shall be submitted.
 - (b) The time schedule under which the report under sub. (1) shall be submitted.
 - (c) The types of cancer and precancerous conditions to be reported under sub. (1).
- (3) Any information reported to the department under sub. (1) or (5) which could identify any individual who is the subject of the report or the physician submitting the report shall be confidential and may not be disclosed by the department except to the following:
 - (a) A central tumor registry in another state if the individual who is the subject of the information resides in the other state.
 - (b) A national tumor registry recognized by the department.
- (4) The report of information under sub. (1) may not be construed as a violation of any person's responsibility for maintaining the confidentiality of patient health care records, as defined under s. 146.81(4).
- (5) The department may, to the extent feasible, collect information related to the occupation of cancer patients in order to fulfill the purpose of s. 250.04 (3)(b)4.

Administrative Rules: Hospital Cancer Reporting (HSS 124.05 (h))

Every hospital shall report to the department all malignant neoplasms that are diagnosed by the hospital and all malignant neoplasms diagnosed elsewhere if the individual is subsequently admitted to the hospital. The report of each malignant neoplasm shall be made on a form prescribed or approved by the department and shall be submitted to the department within 6 months after the diagnosis is made or within 6 months after the individual's first admission to the hospital if the neoplasm is diagnosed elsewhere, as appropriate. In this paragraph, "malignant neoplasm" means an *in situ* or invasive tumor of the human body, but does not include a squamous cell carcinoma or basal cell carcinoma arising in the skin.

(See page 48 for more information regarding WCRS record confidentiality protection measures.)

Neoplasm Record/Report: Required Data for 1999 Diagnoses

Patient Demographics

Last Name Zip Code

First Name County of Residence

Middle Name Race
Maiden Name Ethnicity

Sex Occupation/Industry (text)

Street Address Date of Birth
City Marital Status

State Social Security Number

Administrative Fields

Medical Record Number Facility Referred From Tumor Registry Accession Number (if applicable) Facility Referred To

CRS Facility Code Class of Case

Follow-up Physician Number

Tumor Characteristics

Sequence Number Cell Type
Date of First Contact Grade
Date of Discharge Tumor Size

Date of Diagnosis

Primary Site/Subsite

Laterality

Metastatic Sites (to date)

Stage of Disease (at diagnosis)

Diagnostic Confirmation

Treatment Fields

Cancer Directed Treatment Non-Definitive Treatment Treatment Date

Note: Per federal cancer reporting requirements established by the National Program of Cancer Registries, the above data are required on each case submitted to the Wisconsin Cancer Reporting System. Data can be submitted by filling out the Neoplasm/Record report form provided by WCRS or by submitting electronic data using a WCRS-approved record layout format.

Cancer Reporting System Operating Procedures

Data Collection. The Wisconsin Cancer Reporting System receives hospital information from medical records departments or tumor registries. Each records department or registry has two major responsibilities. The first is case finding. All of the hospital's newly diagnosed and/or admitted cancer cases need to be identified. As part of this identification, medical records as well as radiology, pathology, outpatient clinic and autopsy reports need to be examined to assure complete reporting. The second responsibility of the registry or records department is to report the cases identified from one or more of the above-mentioned processes to WCRS. Reporting is done either by completing the one-page Neoplasm Report Form, or by submitting electronic diskettes using a pre-approved record layout.

Physicians and freestanding clinics report (1) all cancer cases they treat, and (2) those cases they diagnose if they are not referred to a Wisconsin hospital for treatment within two months of the diagnosis date. There were 1,798 clinic-only reported cases in 1999 (7 percent of the total cases reported for that year). This is a 32 percent increase from the number of clinic-only cases reported in 1997 (1,216 cases) and a 10 percent increase from 1998 (1,615 cases).

Reports for Wisconsin residents receiving care in Alaska, Arkansas, California, Colorado, Florida, Illinois, Indiana, Iowa, Kentucky, Massachusetts, Michigan, Mississippi, Missouri, Montana, Texas, Washington, West Virginia and Wyoming are reported to WCRS by the central registries for those states. Minnesota hospitals with substantial numbers of Wisconsin resident cancer patients report Wisconsin cases directly to WCRS. Data supplied by Minnesota facilities and reports from other out-of-state registries accounted for just under 3 percent of the cases in this report (742 cases).

Finally, WCRS matches its records to the Wisconsin resident annual death file to add mortality information for persons who have previously been reported to WCRS. From that match, WCRS identifies cases where cancer is indicated on the death certificate but no report exists in the registry. For those cases, WCRS queries the medical source listed on the death certificate (the hospital, out-of-state registry, physician or coroner who certified the death) to provide information about the cancer case that was not previously reported to WCRS. **Wisconsin Cancer Incidence and Mortality, 1999** includes 335 cases originally diagnosed during 1999 that were reported as a direct result of the death certificate confirmation process.

Supplemental Data Sources. Mortality data were obtained from the 1999 Wisconsin resident death file. The mortality tables are based on deaths that occurred in 1999 for which the underlying cause of death was a reportable cancer. Certificates for out-of-state deaths of Wisconsin residents were provided by the states where the deaths occurred. Months between diagnosis and death were calculated from the date of death shown on the death certificate and the date of diagnosis from the case reports.

Wisconsin population estimates were produced by the Bureau of Health Information. BHI compiles its estimates by reconciling those from the Wisconsin Department of Administration, Demographic Services, against the mid-year age and sex proportional distribution from the Population Estimates Branch of the U.S. Bureau of the Census to produce mid-year, county-level and state-level age-by-sex estimates.

Reportable Cases. All primary malignant neoplasms are reportable except basal cell and squamous cell carcinoma of the skin. Benign tumors, premalignant conditions and diseases secondary to the neoplastic process are not reportable.

The 1999 incidence tables are based on Wisconsin resident cases of reportable cancer first diagnosed during 1999 and reported to the Cancer Reporting System by November 15, 2001.

Record Confidentiality. In addition to protecting data release as required by the Cancer Reporting Statute (see page 45), WCRS follows strict guidelines once data are received to maintain the confidentiality of patient records, in-house. Procedures include, but are not limited to, securely storing all records on the Department computer network; limiting computer access for confidential data items to only the WCRS staff; and locking up all paper records, diskettes and paper or electronic output that include confidential data items. More detailed information regarding confidentiality may be obtained by contacting WCRS.

Quality Assurance. WCRS staff routinely edit cancer reports for completeness and logical consistency, and make periodic checks for consistency among multiple reports received for the same case. If an inconsistency is found, queries are sent to the reporting agent and corrections are made in the records. If more than one report is on file for the same person or tumor, the records are matched using national case-merging protocol. This protocol allows for the most accurate and complete information on the description of the tumor cell type, extent of disease at diagnosis, method of diagnostic confirmation, types of definitive therapy, race of patient, etc.

Completeness and Timeliness of Reports. The 1999 data are estimated to be 95 percent complete. Statewide training sessions offered by WCRS to the reporting facilities focus on increasing complete casefinding, timeliness, and compliance with the cancer reporting statute and administrative rule.

The North American Association of Central Cancer Registries (NAACCR) recently awarded WCRS its Gold Standard for 1998 data quality, completeness and timeliness. This was the fourth year that WCRS received national recognition from NAACCR for achieving high standards in data preparation. WCRS received the Gold Standard for 1995 and 1996 data and the Silver Standard for 1997 data. WCRS has recently submitted the 1999 data to NAACCR for evaluation.

Multiple Tumor Determination. When apparent multiple neoplasms of the same primary site in one patient exist simultaneously or over a period of time, WCRS applies the following rules to determine whether more than one independent primary tumor exists:

- 1) A single lesion with multiple histologic types is considered a single primary.
- 2) An independent primary cancer of the same histologic type as one diagnosed in the same site more than one year earlier is considered a separate primary cancer, unless the physician states that it is a recurrence of the earlier cancer.
- 3) Simultaneous multiple lesions of the same histologic type within the same primary site are considered a single primary cancer.
- 4) Multiple lesions of different histologic types within a single site, whether occurring simultaneously or at different times, are considered separate primaries.

Each side of a paired organ is considered a separate site with the following three exceptions: simultaneous ovarian tumors, simultaneous Wilm's tumors (of the kidney) and simultaneous retinoblastomas (of the eye). These exceptions are coded as a tumor of the paired organ with bilateral presentation (involvement of the tumor in both sides of a paired organ). Aside from the above exceptions, lesions in both sides of a paired organ are considered separate tumors whether occurring simultaneously or at different times unless a physician determines a) one side is metastatic from the other or b) the tumor is presenting bilaterally.

Incident tumors are classified according to the **International Classification of Diseases for Oncology, Second Edition** (ICD-O2). For specific ICD-O2 codes used in the site groups and major site groups, see "Coding of Reported Cases: ICD-O2 Site Codes" and "Coding of Reported Cases: ICD-O Cell Type Codes" on pages 55-58. Tumor codes in the mortality section are classified using the **International Statistical Classification of Diseases and Related Health Problems, Tenth Revision** (ICD-10). Specific ICD-10 codes for the respective site groups are listed on page 59.

Please note that all tables in this year's report (except Table 1 and Supplemental Table D) combine colon, rectum and recto-sigmoid cancers into one site group: colorectal. Prior to the 1998 report, this grouping was used only in tables with the *major* site groupings. This change will make Wisconsin data more comparable to national data and data from other states.

While the ICD-O2 is used to assign both a primary site code *and* a cell type code to every tumor, ICD-10 codes reflect either site *or* cell type. The ICD-10 has three skin tumor classifications, one for melanomas of the skin, one for Kaposi's sarcoma of the skin and one for all other skin tumors combined. Basal cell and squamous cell carcinomas of the skin, which are not reportable to the Cancer Reporting System, make up the majority of these "other" skin tumors. Only reportable nonmelanoma skin cancers are included in the *incidence* tables in the site group "All Others." In 1999, 104 reportable cases of nonmelanoma skin cancer were diagnosed. Deaths from all nonmelanoma skin cancers are included in the "All Others" site group in the *mortality* tables in this report.

Definitions

Patient Residence. Tables 5 and 6 and Supplemental Tables A and B are based on patient residence at the time of diagnosis. WCRS collects postal zip code and county of residence for cancer cases rather than minor civil division of residence (village, town or city). For Supplemental Table B, zip codes and county boundaries are used to approximate city of residence. Information about the boundaries used to define city of residence is available upon request. Tables 15 and 16 and Supplemental Table C are based on the deceased's county of residence at the time of death.

Patient Race. Tables 3, 4, 8, 13, 14 and 18 present cancer information by race. The race categories used in this report are 1) white, 2) African American 3) American Indian, 4) Asian/Pacific Islander and 5) unknown. The specific race categories are as follows:

White African American American Indian, Aleutian, or Eskimo Asian/Pacific Islander Chinese Guamanian, NOS Japanese Polynesian, NOS

Filipino Tahitian Hawaiian Samoan Korean Tongan

Asian Indian, Pakistani Melanesian, NOS Vietnamese Fiji Islander Hmong New Guinean

Kampuchean Other Asian, inc. Asian, NOS

Thai and Oriental, NOS
Micronesian, NOS Pacific Islander, NOS

Chamorran

Unknown

Note: Hispanic ethnicity is not provided as a separate category in this report. Special requests for combined years of data are available by contacting WCRS.

Stage of Disease at Diagnosis. The stage of disease at diagnosis refers to how far a cancer had spread from the site of origin when it was diagnosed. WCRS cancer data are coded according to summary guidelines of NCI's Surveillance Epidemiology and End Results (SEER) program. The following staging definitions are used in this report:

In Situ A small cancer confined to the cells in which the cancer began, that does not

invade or penetrate the surrounding tissue.

Localized An invasive tumor (penetrated the surrounding tissue) that is confined to the organ

of origin.

Regional A tumor that has spread beyond the organ of origin to adjacent organs or tissue by

direct extension (penetrated directly into surrounding organs or tissues), or through the regional lymph nodes (through the lymphatic system), or both, but

appears to have spread no further.

Distant A tumor that has spread to parts of the body remote from the primary organ, or a

systemic malignancy (such as cancers in the blood, bone marrow, or lymph

system).

Unknown Insufficient information available to determine the stage of disease at diagnosis.

Type of Diagnostic Confirmation

The type of diagnostic confirmation reported indicates the method used to provide the most accurate evidence for the diagnosis of cancer. Microscopic confirmation is required to identify cell type, the most sensitive measure of the *type* of cancer. The following definitions and examples are used in coding diagnostic confirmation.

Positive Histology - Microscopic diagnosis based upon specimen from a biopsy or frozen section of tissue.

Positive Cytology or Blood Confirmation - Diagnosis based upon microscopic examination of cells (as opposed to tissue).

Positive Microscopic Confirmation, Not Otherwise Specified - Microscopic diagnosis with the method unspecified.

Laboratory Test/Marker Study - Clinical diagnosis based on a laboratory test or a tumor marker study.

Surgery Observation Without Microscopic Confirmation - Diagnosis made on the basis of visualization or palpation during surgery.

Imaging - Includes chest x-rays, bone scans, mammograms, MRIs, upper GI series, etc.

Other Clinical Methods - Diagnosis based on medical history, physical examination and other clinical methods not mentioned above.

Autopsy - Reported when the cancer is first discovered or confirmed upon autopsy. An autopsy may involve microscopic examination of tissues or cells.

Incidence/Death Case Matching (Tables 19 & 20). Tables 19 and 20 are derived from incidence records in the WCRS registry (with tumors diagnosed since 1978) matched against the 1999 Wisconsin resident death file and updated with information from the death certificate. The most important matching criteria are full name, date of birth and social security number. If any of the matched persons had more than one primary tumor reported in the WCRS registry (a breast cancer and a cervical cancer, for example), then each tumor is counted as a separate case in the tables.

Average Years of Life Lost. The "years of potential life lost" is the difference between actual age at death and the expected age at death for persons of a given age and sex. The average years of life lost by sex and primary site group is the sum of all years 'lost' for persons of the same sex and type of cancer death, divided by the number of deaths for that sex and cancer type. The expected age at death used for Cancer Incidence and Mortality, 1999 was taken from the statewide Wisconsin life tables for 1997-99 (prepared by the Bureau of Health Information).

Rates. Following CDC standards, rates in this report are age-adjusted to the Year 2000 U.S. standard population (see page 62). For comparability with previous reports, Tables 2, 12 supplemental Table E and Figures 2, 3, 9 and 10 also contain rates calculated to the 1970 population (the previous standard recommended for cancer data prior to 1999). Age-adjusted rates take into account the diverse age distributions between populations. Valid comparisons between age-adjusted rates can be made, provided the same standard population and age groups have been used in the calculation of the rates. Age-adjusted rates for this report were produced using the direct method of adjustment. With this method, the population is first divided into reasonably homogeneous age groups (five-year age groups for this report). The age-specific rate is calculated for each age group, and each age-specific rate is weighted by multiplying it by the proportion of the 1970 or Year 2000

standard population in the respective age group. The age-adjusted rate is the sum of the weighted age-specific rates.

The age-adjusted rates in **Cancer Incidence and Mortality**, **1999** were calculated using five-year age intervals. Age intervals used to calculate age-adjusted rates for annual reports prior to 1994 varied, and documentation for each publication should be consulted before comparing published rates.

Though crude rates are not reported in any of the **Cancer Incidence and Mortality, 1999** tables, they can be calculated from the population tables on pages 60 and 61. The reliability of crude rates can be measured by comparing the standard error for each rate. The standard error is estimated by dividing the crude rate by the square root of the number of cases/deaths upon which the rate was based. This gives the standard error for a rate per 100,000 population. The 95% confidence interval can be determined by multiplying the standard error times 1.96.

Age-specific rates can also be calculated using the same tables. The age-specific rates in Figures 1 and 4 are the number of events per 100,000 persons in each sex and five-year age range.

Year 2000 Population Standard for Age-Adjusting Cancer Incidence/Mortality Rates in Wisconsin

Background. In August 1998, the U.S. Department of Health and Human Services (DHHS) adopted a policy to change the population standard for age-adjusting death rates to the 2000 U.S. population. This policy reflects the outcome of two workshops, held in 1991 and 1997, sponsored by the National Center for Health Statistics with participation from the National Academy of Sciences, the National Institutes of Health, the Centers for Disease Control and Prevention, academia and the states. The DHHS Secretary has directed all Federal agencies to use the Year 2000 population standard for all age-adjusted rate calculations beginning with 1999 health data.

Purpose. The purpose of the new DHHS policy to change the population standard was to ensure that (1) age-adjusted death rates used in all DHHS systems are comparable, and (2) age-adjusted death rates reflect a more contemporary population structure.

Effect of the change. Changing to the Year 2000 population standard affects the magnitude of age-adjusted incidence and mortality rates because the age distributions of the 1970 and 2000 populations differ, and the standard population serves as the weights for calculating age-adjusted rates. In the 30 years between 1970 and 2000, the U.S. population aged considerably. Greater survival at older ages is one factor that resulted in a higher concentration of population in the middle and older age groups in the Year 2000 standard. (The largest age group in the 1970 population standard was ages 10-14, while in the Year 2000 standard it was ages 40-44.) The tables on page 60 show the difference between the 1970 and 2000 standard populations in the weights used for each age group.

The following example illustrates the difference in the rates adjusted to the two standards, using the same number of cancers for the rate calculation. There were 23,920 invasive cancers diagnosed in 1999. Calculating the age-adjusted rate using the 1970 population standard produces a rate of 376 cases per 100,000 population. Age-adjusting those 23,920 cases to the Year 2000 standard population produces a rate of 438 cases per 100,000 population.

Age-adjusted rates calculated before implementation of the year 2000 standard are not comparable to rates using the new standard. Rates based on different standard populations should not be compared. Use of the Year 2000 standard will result in age-adjusted rates substantially larger than those based on the 1970 standard. See Tables 2 and 13 for 1999 cancer incidence and mortality rates age-adjusted to the two standard populations (1970 and 2000).

Caveats/Limitations

Geographic Boundaries. Two factors affect interpretation of geographic location tabulations. First, many counties have a very small number of new cancer diagnoses or deaths in a year, resulting in site-specific frequencies in the single digits. Such small numbers may easily double or triple (or decrease by equivalent amounts) from year to year. When groups of related counties or primary sites are combined to produce larger number of events the rates become more stable. Even at the statewide level, however, some random fluctuation is expected.

Second, reporting completeness and/or timeliness may vary by region. The largest reporting variations relate to out-of-state diagnosis and treatment of patients who live in the sparsely populated counties along the Wisconsin/Minnesota border and are seen in Minnesota hospitals. The inclusion of reports from nearby Minnesota hospitals, starting in 1992, reduced this problem. While only 1 percent of the 1999 Wisconsin resident cases submitted to WCRS were reported by Minnesota facilities, the effect for some border counties is quite large. The contribution of Minnesota reports to 1999 county incidence is as follows: Douglas (94%), Sawyer (52%), Bayfield (35%), Washburn (31%), Ashland (30%), Buffalo (26%), Iron (26%), Pierce (22%), Burnett (19%), Pepin (6%) and Polk (5%). In addition, Minnesota reports contributed to less than 5 percent of the total incidence counts in 10 other counties. Reporting by Minnesota hospitals is a voluntary process (established through memoranda of understanding which protect patient confidentiality) and is not covered under Section 255.04, Wisconsin Statutes. Therefore, the number of reports sent to WCRS can vary greatly from year to year. Overall, fewer cases were received from Minnesota facilities for 1999 diagnoses than in previous years. This under-reporting of cases may have an effect on county incidence totals (the effect on regional/statewide totals is minimal).

Patient Race. Historically, differences among facilities in recording patient race (information not required in medical chart, entered by proxy, patient self-reporting) have led to a number of ambiguous or unknown race codes. As training and expanded codes have been introduced in recent years, the number of incidence cases reported with unknown race has decreased more than two-fold, from 518 in 1994 (over 2 percent of total reports) to 180 in 1999 (less than 1 percent of total reports). Race reporting is nearly complete on death certificates.

Incidence to Mortality Comparison. Figures 5 and 6 list the number of invasive cancer cases and deaths recorded for calendar year 1999, by site group. They are helpful when calculating incidence to mortality ratios (I/M) but they are not a direct indicator of survival rates. The deaths that occurred in 1999 were not always cases diagnosed in 1999 (diagnosis could have been at any time, including years prior to 1999). For example, on page 39, Figure 5 lists 432 cases and 95 deaths for the site group "Mouth and Pharynx." This should *not* be interpreted as "432 cases were diagnosed in 1999; and *of those*, 95 died within that same year."

Average Years of Life Lost. Life tables used to calculate potential average years of life lost for past Wisconsin Cancer Incidence and Mortality and earlier Cancer in Wisconsin reports have varied, and documentation for each publication should be consulted before comparing data between years. Sites with a smaller number of cases or deaths can have larger fluctuations in the average years of life lost.

In Situ Cervical Cancer Data. Comparison of *in situ* cervical cancer data over a wide range of years may be affected by changes in cytologic and pathologic classifications of pre-invasive cervical cancers. In particular, classification systems formerly distinguished between noninvasive malignant lesions and noninvasive pre-malignant or benign lesions; more recent classification systems combine these categories. Data are affected by changes in terminology among cytologists and pathologists. In addition, many local and national cancer programs no longer require reporting of *in situ* cervical cancers. Even though it was still reportable in Wisconsin (for 1999 cases), the elimination of this reporting requirement in other programs has resulted in some reduction in the number of these cases reported to WCRS. These changes have not affected reporting of *in situ* cancers of other sites.

CODING OF REPORTED CASES ICD-O-2 Site Codes (1990 Code Version)

Page 1 of 3

| DDIMADA CITE NAME | Major | Site | Individual |
|---|------------|---------|--|
| PRIMARY SITE NAME | Site Group | Group | Site |
| _ip | | | C00 |
| Гоngue | | | C01 - C02 |
| Major Salivary Glands | | | C07 - C08 |
| Gum | | | C03 |
| Floor of Mouth | | | |
| Other & Unspecified Parts of Mouth | | | |
| Oropharynx | | | |
| Nasopharynx | | | |
| Hypopharynx Other Sites in Lip, Oral Cavity, & Pharynx | | | |
| Other Sites in Lip, Oral Cavity, & Filarylix | | •••••• | C14 |
| Mouth and Pharynx | C00 - C14 | | |
| Esophagus | | | |
| Stomach | | | |
| Small Intestine | | | |
| Colon | | | |
| Rectum, Rectosigmoid Junction, & Anus | | | C19 - C21 |
| Colorectal | C18 - C21 | C18-C21 | |
| | | | |
| Liver & Intrahepatic Bile Ducts | | | C22 |
| Liver & Intrahepatic Bile Ducts | | | |
| | | | C23 - C24 |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24 C25 C48 |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24 C25 C48 |
| Gallbladder & Extrahepatic Bile Ducts | C | | C23 - C24 C25 C48 |
| Gallbladder & Extrahepatic Bile Ducts | | | C23 - C24 C25 C48 |
| Gallbladder & Extrahepatic Bile Ducts | | | C23 - C24 C25 C48 |
| Gallbladder & Extrahepatic Bile Ducts | | | C23 - C24 C25 C48 |
| Gallbladder & Extrahepatic Bile Ducts | | | C23 - C24 C25 C48 C26 |
| Gallbladder & Extrahepatic Bile Ducts | | | C23 - C24 C25 C48 C26 |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24 C25 C48 C26 |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24 C25 C48 C26 C30 - C31 C32 |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24C25C48C26C30 - C31C32C37 - C38* |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24C25C48C26C30 - C31C32C37 - C38* |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24C25C48C26C30 - C31C32C37 - C38* |
| Gallbladder & Extrahepatic Bile Ducts | | C25 | C23 - C24C25C48C26C30 - C31C32C37 - C38* |

^{*}Pleura sites are coded C38.4; heart and mediastinum sites are identified by the other C38.x codes

CODING OF REPORTED CASES ICD-O-2 Site Codes (1990 Code Version)

Page 2 of 3

| PRIMARY SITE NAME | Major Site Group | Site Group | Individual Site |
|---|---------------------|----------------|--------------------|
| | Site Group | Отощр | 510 |
| Hematopoietic & Reticuloendothelial | | | |
| Bone, Joints, & Articular Cartilage | | | |
| Connective, Subcutaneous, Other Soft Tissue | | | C49 |
| Bone & Connective Tissue | | | |
| Melanoma of Skin | | | |
| Breast | C50 | C50 | C50 |
| Uterus, NOS | | | |
| Cervix Uteri | | | |
| Placenta | | | |
| Corpus Uteri | | C54 | C54 |
| Ovary, Fallopian Tube, & Broad Ligament | | | C56 - C57** |
| Other & Unspecified Female Genital Organs | | | C51 - C52, C57** |
| Other Female Genital | | C51 - C52 | |
| Other I chiaic German | | | |
| Female Genital | | | |
| Prostate | | C61 | C61 |
| Prostate | | | |
| Penis & Other Male Genital Organs | | | |
| Tenis & Other Maio Gentar Organis | | | |
| Other Male Genital | | C60, C62 - C63 | |
| Male Genital | C60 - C63 | | |
| Urinary Bladder | | C67 | C67 |
| Kidney & Other Urinary Organs | | | |
| Urinary Tract | | · | , |
| Eye & Lacrimal Gland | | | C69 |
| Brain | | | |
| Other & Unspecified Parts of Central Nervous System | | | |
| Eye, Brain & Other Central Nervous System | | C69 - C72 | |
| Thyroid Gland | | | C73 |
| Other Endocrine Glands | | | |

^{*}Leukemias are initially determined by the cell type code (see next page), and then defaulted to site code C42.1

^{**}Broad ligament and ovary sites are coded C57.0 and C57.1, respectively; "other and unspecified female genital" sites are the remaining C57.x codes

CODING OF REPORTED CASES ICD-O-2 Site Codes (1990 Code Version)

Page 3 of 3

| PRIMARY SITE NAME | Major Site Group | Site Group | Individual Site |
|---|----------------------------------|---------------|---|
| Lymph Nodes | | | |
| Hodgkin's Disease . | | | Cell Type Code 965 - 966 |
| Lymphoid Leukemia Myeloid Leukemia Other Leukemia | | | Cell Type Code 986 Cell Type Code 980, 981 |
| Leukemia | Cell | Type Code 98 | 0 - 994 |
| Leukemia & Lymph Nodes | | 04 | |
| Other & Ill-defined Sites (Includes | | | C44, C47, C76 |
| All Others (Includes Reportable | | C73 - C76 | .7 |
| All Others (Includes Mouth & | C40 - C44, C47 C49, C69 - C76 | | |
| Unknown Primary Site | | | C80 |

Note: Basal and squamous cell carcinoma of skin sites and nonmalignant neoplasms are not reportable. Extra-nodal lymphomas are coded to their respective primary sites rather than to lymph nodes.

CODING OF REPORTED CASES ICD-O Cell Type Codes (Encompasses 1976 and 1990 Code Versions)

| CELL TYPE GROUP | CODE | | | |
|---|------------------------|--|--|--|
| Small Cell/Oat Cell Carcinoma | 804 | | | |
| Squamous Cell Carcinoma | | | | |
| Transitional Cell Carcinoma | | | | |
| Papillary Transitional Cell Carcinoma | | | | |
| Papillary Adenocarcinoma | | | | |
| Clear, Renal & Granular Cell Adenocarcinoma | | | | |
| Cystadenocarcinoma | | | | |
| Mucinous Adenocarcinoma | | | | |
| Ouctal Adenocarcinoma | | | | |
| Medullary Adenocarcinoma | | | | |
| obular Adenocarcinoma | | | | |
| Other Specified Adenocarcinoma | | | | |
| ~ r | 827-830, 833-838 | | | |
| | 840-842, 855 | | | |
| Other Adenocarcinoma | * | | | |
| denocarcinoma, NOS | | | | |
| arcinoma, Not Otherwise Specified (NOS) | | | | |
| atemonia, Not Otherwise Specifica (NOS) | | | | |
| arcoma, NOS and Osteogenic Sarcoma | | | | |
| Astrocytoma, NOS | 940 | | | |
| Glioblastoma Multiforme | 944 | | | |
| Germ Cell Neoplasms | 906-909 | | | |
| Iodgkin's Disease | 965-966 | | | |
| Non-Hodgkin's Lymphoma | | | | |
| | | | | |
| ymphoid Leukemia | 982 | | | |
| yeloid Leukemia | | | | |
| Other Leukemia | | | | |
| | 987-994 | | | |
| lasma Cell Tumors | | | | |
| Inknown Cell Type | | | | |
| (Includes "No Microscopic Confirmation") | | | | |
| ll Others | 803, 805, 808-811 | | | |
| | 839, 843, 856-879 | | | |
| | 881-905, 910-917 | | | |
| | 922-939, 941-943 | | | |
| | 945-958, 972, 974, 976 | | | |

CODING OF DEATHS ICD-10 Cancer Codes

| | Major | Site |
|---|-------------------------------------|----------------------|
| PRIMARY SITE NAME | Site Group | Group |
| Mouth and Pharynx | | C00 – C14 |
| Stomach | | C16 |
| Colorectal | C18 – C21 | C18 – C21 |
| Pancreas | | |
| Other Gastrointestinal Tract | | |
| Other Costanint actival Tract | | C26, C48 |
| Other Gastrointestinal Tract | • | |
| Trachea, Bronchus & Lung | | C33 – C34 |
| Other Respiratory | | |
| Respiratory | | |
| Bone & Connective Tissue | | |
| Melanoma of Skin | | C43 |
| Breast | | C50 |
| Cervix Uteri | | C53 |
| Body of Uterus | | C54 |
| Other Female Genital | | C51 – C52 |
| | | C55 – C59 |
| Female Genital | | |
| Prostate | | C61 |
| Other Male Genital | | C60, C62 – C63 |
| Male Genital | | |
| Urinary Bladder | | C67 |
| Kidney, Other, & Unspecified Urinary Organs | | C64 – C66, C68 |
| Urinary Tract | | |
| Eye, Brain & Other Nervous System | | C69 – C72 |
| Lymphoma | | C81 – C85 |
| Leukemia | | |
| Lymphoma & Leukemia | C81 – C85, C91 – C95 | |
| All Others | | C44 – C46, C73 – C80 |
| | | , |
| All Others | C00 – C14, C40 – C41, C43 – C47, C4 | |
| | C69 – C80, C88, C90, C96 – C97 | |

WISCONSIN POPULATION ESTIMATES BY 5-YEAR AGE GROUP AND SEX July 1, 1999

| Age | Male | Female | Total |
|----------|-----------|-----------|-----------|
| ALL AGES | 2,602,140 | 2,693,040 | 5,295,180 |
| Under 5 | 171,160 | 163,490 | 334,650 |
| 5-9 | 188,110 | 179,510 | 367,620 |
| 10-14 | 208,580 | 196,930 | 405,510 |
| 15-19 | 233,040 | 203,150 | 416,190 |
| 20-24 | 176,010 | 172,410 | 348,430 |
| 25-29 | 160,990 | 164,580 | 325,570 |
| 30-34 | 182,960 | 185,570 | 368,530 |
| 35-39 | 220,390 | 216,410 | 436,800 |
| 0-44 | 221,580 | 216,970 | 438,550 |
| -5-49 | 191,020 | 193,660 | 384,690 |
| 50-54 | 156,950 | 160,650 | 317,600 |
| 55-59 | 121,060 | 126,380 | 247,440 |
| 50-64 | 100,550 | 105,760 | 206,310 |
| 55-69 | 84,690 | 96,730 | 181,420 |
| 0-74 | 77,340 | 93,370 | 170,710 |
| 5-79 | 60,350 | 83,100 | 143,460 |
| 30-84 | 39,610 | 66,640 | 106,240 |
| 35+ | 27,740 | 67,720 | 95,460 |

WISCONSIN POPULATION ESTIMATES BY COUNTY AND DHFS REGION July 1, 1999

| County | Population | County | Population |
|-------------|------------|---------------------|------------|
| Adams | 18,330 | Marinette | 43,130 |
| Ashland | 16,860 | Marquette | 13,900 |
| Barron | 43,620 | Menominee | 4,840 |
| Bayfield | 14,730 | Milwaukee | 956,710 |
| Brown | 222,130 | Monroe | 39,330 |
| Buffalo | 13,940 | Oconto | 33,850 |
| Burnett | 14,230 | Oneida | 35,050 |
| Calumet | 39,580 | Outagamie | 159,000 |
| Chippewa | 55,470 | Ozaukee | 81,100 |
| Clark | 32,890 | Pepin | 7,260 |
| Columbia | 50,130 | Pierce | 35,240 |
| Crawford | 16,720 | Polk | 37,700 |
| Dane | 415,810 | Portage | 67,620 |
| Dodge | 84,730 | Price | 16,420 |
| Door | 26,620 | Racine | 189,550 |
| Douglas | 42,370 | Richland | 17,890 |
| Dunn | 38,710 | Rock | 151,290 |
| Eau Claire | 92,360 | Rusk | 15,320 |
| Florence | 5,080 | St Croix | 59,520 |
| Fond du Lac | 96,960 | Sauk | 53,140 |
| Forest | 9,330 | Sawyer | 15,710 |
| Grant | 49,910 | Shawano | 39,200 |
| Green | 32,240 | Sheboygan | 112,450 |
| Green Lake | 19,620 | Taylor | 19,610 |
| Iowa | 22,270 | Trempealeau | 26,600 |
| Iron | 6,350 | Vernon | 26,840 |
| Jackson | 18,500 | Vilas | 19,680 |
| Jefferson | 74,360 | Walworth | 86,020 |
| Juneau | 23,590 | Washburn | 14,930 |
| Kenosha | 142,810 | Washington | 114,610 |
| Kewaunee | 20,100 | Waukesha | 352,650 |
| La Crosse | 106,640 | Waupaca | 50,320 |
| Lafayette | 16,270 | Waushara | 21,040 |
| Langlade | 20,640 | Winnebago | 155,050 |
| Lincoln | 29,030 | Wood | 77,940 |
| Manitowoc | 84,890 | | |
| Marathon | 126,850 | DHFS Regions | |
| | | Northern Region | 480,900 |
| | | Northeastern Region | 1,142,680 |
| | | Southern Region | 952,320 |
| | | Southeastern Region | 1,997,810 |
| | | Western Region | 721,470 |
| | | STATE TOTAL | 5,295,180 |

2000 U.S. Standard Million Population

| AGE GROUP | STANDARD POPULATION |
|------------------|---------------------|
| 0-4 | 69,135 |
| 5-9 | 72,533 |
| 10-14 | 73,032 |
| 15-19 | 72,169 |
| 20-24 | 66,478 |
| 25-29 | 64,529 |
| 30-34 | 71,044 |
| 35-39 | 80,762 |
| 40-44 | 81,851 |
| 45-49 | 72,118 |
| 50-54 | 62,716 |
| 55-59 | 48,454 |
| 60-64 | 38,793 |
| 65-69 | 34,264 |
| 70-74 | 31,773 |
| 75-79 | 26,999 |
| 80-84 | 17,842 |
| 85 and older | 15,508 |
| Total Population | 1,000,000 |
| | |

Source: 2000 U.S. Census, Population Estimates Branch, U.S. Bureau of the Census.

1970 U.S. Standard Million Population

| AGE GROUP | STANDARD POPULATION |
|------------------|---------------------|
| 0-4 | 84,416 |
| 5-9 | 98,204 |
| 10-14 | 102,304 |
| 15-19 | 93,845 |
| 20-24 | 80,561 |
| 25-29 | 66,320 |
| 30-34 | 56,249 |
| 35-39 | 54,656 |
| 40-44 | 58,958 |
| 45-49 | 59,622 |
| 50-54 | 54,643 |
| 55-59 | 49,077 |
| 60-64 | 42,403 |
| 65-69 | 34,406 |
| 70-74 | 26,789 |
| 75-79 | 18,871 |
| 80-84 | 11,241 |
| 85 and older | 7,435 |
| Total Population | 1,000,000 |

Source: 1970 U.S. Census, Population Estimates Branch, U.S. Bureau of the Census.

Note: The bolded age group in each standard is the heaviest weighted group.

Wisconsin Department of Health and Family Services Regions

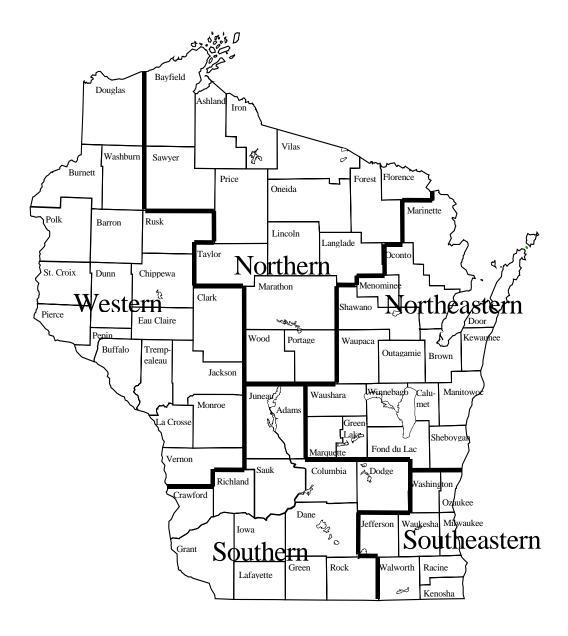


Table A. Number of *In Situ/Invasive* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999

| Primary Site | Total | Adams | Ashland | Barron | Bayfield | Brown | Buffalo | Burnett | Calumet | Chippewa | Clark |
|-----------------------------------|--------|-------|---------|--------|----------|-------|---------|---------|---------|----------|-------|
| Mouth and Pharynx | 646 | 0 | 1 | 6 | 2 | 15 | 1 | 3 | 3 | 9 | 4 |
| Stomach | 370 | 0 | 3 | 3 | 1 | 13 | 1 | 1 | 1 | 5 | 2 |
| Colorectal | 3,316 | 14 | 9 | 29 | 13 | 126 | 12 | 7 | 17 | 34 | 21 |
| Pancreas | 578 | 1 | 1 | 1 | 1 | 16 | 2 | 1 | 3 | 5 | 5 |
| Other Gastrointestinal Tract | 777 | 0 | 4 | 7 | 6 | 32 | 3 | 4 | 3 | 12 | 9 |
| Trachea, Bronchus & Lung | 3,195 | 11 | 16 | 34 | 12 | 97 | 11 | 10 | 7 | 45 | 10 |
| Other Respiratory | 360 | 2 | 1 | 2 | 1 | 17 | 0 | 0 | 1 | 9 | 5 |
| Bone & Connective Tissue | 220 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 1 |
| Melanoma of Skin | 702 | 1 | 2 | 3 | 1 | 29 | 2 | 2 | 4 | 4 | 2 |
| Breast | 4,540 | 15 | 8 | 34 | 11 | 168 | 8 | 11 | 18 | 52 | 30 |
| Cervix Uteri | 809 | 1 | 0 | 3 | 0 | 32 | 2 | 4 | 2 | 3 | 3 |
| Corpus Uteri | 699 | 2 | 2 | 7 | 0 | 41 | 3 | 0 | 1 | 7 | 2 |
| Other Female Genital | 594 | 1 | 0 | 2 | 3 | 22 | 1 | 1 | 5 | 9 | 6 |
| Prostate | 3,745 | 9 | 9 | 20 | 11 | 158 | 15 | 5 | 19 | 30 | 25 |
| Other Male Genital | 236 | 0 | 1 | 3 | 0 | 11 | 0 | 1 | 2 | 3 | 5 |
| Urinary Bladder | 1,173 | 3 | 0 | 6 | 4 | 41 | 2 | 3 | 8 | 7 | 8 |
| Kidney & Other Urinary | 749 | 5 | 3 | 2 | 5 | 32 | 3 | 0 | 8 | 8 | 3 |
| Eye, Brain & Other Nervous System | 430 | 1 | 3 | 5 | 1 | 17 | 2 | 0 | 1 | 5 | 4 |
| Lymph Nodes | 782 | 2 | 5 | 4 | 1 | 40 | 3 | 5 | 3 | 5 | 8 |
| Leukemia | 646 | 2 | 0 | 3 | 0 | 14 | 2 | 0 | 2 | 5 | 6 |
| All Others | 1,162 | 2 | 3 | 11 | 1 | 38 | 3 | 5 | 5 | 11 | 8 |
| All Reportable Sites | 25,729 | 72 | 71 | 185 | 74 | 969 | 76 | 63 | 113 | 269 | 167 |

Table A. Number of *In Situ/Invasive Combined* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Columbia | Crawford | Dane | Dodge | Door | Douglas | Dunn | Eau Claire | Florence | Fond du Lac | Forest |
|-----------------------------------|----------|----------|-------|-------|------|---------|------|------------|----------|-------------|--------|
| Mouth and Pharynx | 8 | 1 | 38 | 5 | 9 | 1 | 3 | 10 | 3 | 5 | 2 |
| Stomach | 5 | 0 | 26 | 5 | 3 | 2 | 1 | 4 | 0 | 5 | 1 |
| Colorectal | 31 | 17 | 214 | 45 | 19 | 22 | 21 | 66 | 2 | 74 | 4 |
| Pancreas | 7 | 1 | 34 | 10 | 5 | 3 | 2 | 4 | 0 | 12 | 2 |
| Other Gastrointestinal Tract | 7 | 4 | 39 | 15 | 6 | 5 | 1 | 6 | 1 | 16 | 1 |
| Trachea, Bronchus & Lung | 32 | 19 | 201 | 41 | 16 | 27 | 13 | 32 | 1 | 55 | 9 |
| Other Respiratory | 6 | 1 | 27 | 5 | 0 | 2 | 3 | 4 | 1 | 3 | 0 |
| Bone & Connective Tissue | 2 | 2 | 17 | 4 | 1 | 1 | 0 | 3 | 0 | 11 | 0 |
| Melanoma of Skin | 7 | 2 | 64 | 7 | 4 | 8 | 1 | 3 | 0 | 16 | 1 |
| Breast | 53 | 16 | 318 | 62 | 40 | 38 | 17 | 59 | 6 | 97 | 4 |
| Cervix Uteri | 5 | 8 | 82 | 9 | 3 | 5 | 1 | 2 | 0 | 15 | 4 |
| Corpus Uteri | 12 | 2 | 50 | 11 | 4 | 6 | 6 | 5 | 1 | 13 | 1 |
| Other Female Genital | 6 | 1 | 44 | 4 | 6 | 2 | 1 | 8 | 1 | 17 | 0 |
| Prostate | 52 | 14 | 251 | 59 | 40 | 19 | 14 | 55 | 4 | 105 | 8 |
| Other Male Genital | 3 | 1 | 17 | 2 | 1 | 0 | 1 | 3 | 0 | 7 | 0 |
| Urinary Bladder | 16 | 5 | 53 | 12 | 10 | 7 | 5 | 21 | 1 | 29 | 0 |
| Kidney & Other Urinary | 12 | 6 | 46 | 21 | 2 | 4 | 3 | 13 | 0 | 15 | 1 |
| Eye, Brain & Other Nervous System | 7 | 1 | 33 | 4 | 7 | 0 | 1 | 4 | 0 | 12 | 2 |
| Lymph Nodes | 9 | 3 | 57 | 14 | 9 | 4 | 1 | 7 | 0 | 18 | 1 |
| Leukemia | 11 | 3 | 53 | 7 | 4 | 3 | 1 | 5 | 1 | 17 | 2 |
| All Others | 10 | 4 | 85 | 16 | 9 | 12 | 3 | 19 | 1 | 27 | 2 |
| All Reportable Sites | 301 | 111 | 1,749 | 358 | 198 | 171 | 99 | 333 | 23 | 569 | 45 |

Table A. Number of *In Situ/Invasive Combined* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| | . | _ | Green Lake | _ | | nos | son | an | sha | Kewaunee | osse |
|-----------------------------------|----------|-------|------------|-----|-----|---------|-----------|--------|---------|----------|-----------|
| Primary Site | Grant | Green | Greer | owa | ron | Jackson | Jefferson | Juneau | Kenosha | Kewa | La Crosse |
| Mouth and Pharynx | 3 | 2 | 4 | 4 | 2 | 3 | 6 | 1 | 11 | 4 | 14 |
| Stomach | 2 | 1 | 2 | 1 | 0 | 2 | 4 | 2 | 8 | 2 | 7 |
| Colorectal | 35 | 32 | 17 | 8 | 5 | 14 | 33 | 19 | 74 | 15 | 65 |
| Pancreas | 5 | 3 | 0 | 0 | 0 | 2 | 7 | 3 | 12 | 6 | 8 |
| Other Gastrointestinal Tract | 9 | 1 | 6 | 2 | 0 | 1 | 8 | 9 | 25 | 1 | 12 |
| Trachea, Bronchus & Lung | 29 | 16 | 18 | 12 | 4 | 13 | 48 | 28 | 110 | 9 | 58 |
| Other Respiratory | 3 | 0 | 2 | 3 | 0 | 1 | 5 | 3 | 7 | 1 | 5 |
| Bone & Connective Tissue | 3 | 2 | 3 | 1 | 0 | 0 | 5 | 2 | 8 | 1 | 2 |
| Melanoma of Skin | 10 | 2 | 5 | 2 | 0 | 1 | 11 | 1 | 10 | 2 | 23 |
| Breast | 34 | 28 | 14 | 19 | 1 | 14 | 60 | 22 | 117 | 25 | 102 |
| Cervix Uteri | 11 | 8 | 3 | 2 | 0 | 1 | 5 | 7 | 19 | 1 | 44 |
| Corpus Uteri | 8 | 8 | 7 | 2 | 2 | 1 | 7 | 5 | 18 | 4 | 5 |
| Other Female Genital | 6 | 5 | 4 | 2 | 1 | 4 | 7 | 1 | 15 | 0 | 16 |
| Prostate | 37 | 13 | 24 | 16 | 3 | 16 | 46 | 26 | 79 | 24 | 65 |
| Other Male Genital | 1 | 5 | 1 | 0 | 1 | 1 | 4 | 1 | 3 | 1 | 2 |
| Urinary Bladder | 11 | 7 | 4 | 4 | 2 | 8 | 18 | 9 | 21 | 2 | 28 |
| Kidney & Other Urinary | 5 | 6 | 3 | 2 | 1 | 5 | 8 | 3 | 20 | 4 | 16 |
| Eye, Brain & Other Nervous System | 6 | 2 | 2 | 0 | 1 | 2 | 8 | 0 | 12 | 3 | 13 |
| Lymph Nodes | 10 | 4 | 1 | 1 | 1 | 2 | 11 | 8 | 24 | 5 | 18 |
| Leukemia | 6 | 6 | 4 | 2 | 2 | 2 | 6 | 5 | 15 | 3 | 14 |
| All Others | 15 | 13 | 4 | 4 | 1 | 4 | 18 | 6 | 28 | 9 | 34 |
| All Reportable Sites | 249 | 164 | 128 | 87 | 27 | 97 | 325 | 161 | 636 | 122 | 551 |

Table A. Number of *In Situ/Invasive Combined* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| | Lafayette | Langlade | Lincoln | Manitowoc | Marathon | Marinette | Marquette | Menominee | Milwaukee | Monroe | Oconto |
|-----------------------------------|-----------|----------|---------|-----------|----------|-----------|-----------|-----------|-----------|--------|--------|
| Primary Site | | | | | | | | | | | |
| Mouth and Pharynx | 4 | | 6 | 14 | 12 | 3 | 0 | 2 | 157 | 8 | 11 |
| Stomach | 2 | 4 | 8 | 3 | 4 | 4 | 0 | 0 | 70 | 0 | 6 |
| Colorectal | 12 | 14 | 20 | 39 | 83 | 17 | 12 | 3 | 527 | 22 | 25 |
| Pancreas | 3 | 4 | 4 | 12 | 14 | 3 | 0 | 0 | 114 | 3 | 3 |
| Other Gastrointestinal Tract | 2 | 4 | 6 | 8 | 14 | 4 | 2 | 0 | 165 | 2 | 9 |
| Trachea, Bronchus & Lung | 9 | 13 | 23 | 50 | 61 | 14 | 24 | 2 | 628 | 35 | 29 |
| Other Respiratory | 0 | 2 | 2 | 4 | 11 | 3 | 3 | 1 | 78 | 3 | 3 |
| Bone & Connective Tissue | 0 | 1 | 1 | 1 | 5 | 0 | 0 | 3 | 33 | 4 | 4 |
| Melanoma of Skin | 0 | 5 | 3 | 9 | 13 | 5 | 1 | 0 | 110 | 11 | 2 |
| Breast | 11 | 18 | 30 | 65 | 102 | 31 | 16 | 0 | 821 | 32 | 44 |
| Cervix Uteri | 2 | 4 | 9 | 9 | 10 | 3 | 3 | 1 | 99 | 6 | 4 |
| Corpus Uteri | 5 | 7 | 11 | 12 | 15 | 5 | 3 | 0 | 142 | 8 | 6 |
| Other Female Genital | 2 | 3 | 4 | 6 | 13 | 4 | 5 | 0 | 94 | 1 | 6 |
| Prostate | 10 | 13 | 22 | 56 | 78 | 39 | 17 | 0 | 652 | 20 | 32 |
| Other Male Genital | 0 | 0 | 4 | 5 | 7 | 0 | 0 | 0 | 37 | 3 | 1 |
| Urinary Bladder | 5 | 2 | 13 | 16 | 25 | 12 | 5 | 1 | 189 | 12 | 5 |
| Kidney & Other Urinary | 2 | 7 | 7 | 6 | 24 | 10 | 3 | 1 | 121 | 3 | 4 |
| Eye, Brain & Other Nervous System | 1 | 0 | 3 | 7 | 4 | 5 | 3 | 0 | 85 | 7 | 5 |
| Lymph Nodes | 2 | 3 | 6 | 14 | 19 | 5 | 2 | 0 | 124 | 7 | 1 |
| Leukemia | 2 | 3 | 3 | 10 | 18 | 4 | 1 | 0 | 95 | 10 | 4 |
| All Others | 5 | 3 | 11 | 14 | 21 | 4 | 2 | 0 | 202 | 7 | 11 |
| All Reportable Sites | 79 | 111 | 196 | 360 | 553 | 175 | 102 | 14 | 4,543 | 204 | 215 |

Table A. Number of *In Situ/Invasive Combined* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| | Oneida | Outagamie | Ozaukee | Pepin | Pierce | Polk | Portage | Price | Racine | Richland | Rock |
|-----------------------------------|--------|-----------|---------|-------|----------|------|---------|-------|--------|----------|------|
| Primary Site | ō | On | Ö | Pe | <u>G</u> | Ā | Ро | 4 | Ra | R Si | Σ. |
| Mouth and Pharynx | 4 | 23 | 11 | 0 | 1 | 0 | 8 | 2 | 28 | 2 | 19 |
| Stomach | 1 | 14 | 7 | 0 | 0 | 3 | 3 | 0 | 19 | 1 | 6 |
| Colorectal | 29 | 83 | 58 | 10 | 18 | 11 | 35 | 15 | 139 | 5 | 98 |
| Pancreas | 4 | 20 | 13 | 0 | 0 | 2 | 5 | 2 | 20 | 2 | 22 |
| Other Gastrointestinal Tract | 11 | 20 | 9 | 2 | 4 | 8 | 7 | 5 | 29 | 3 | 23 |
| Trachea, Bronchus & Lung | 33 | 95 | 30 | 5 | 6 | 24 | 28 | 8 | 127 | 9 | 115 |
| Other Respiratory | 4 | 15 | 3 | 0 | 1 | 0 | 2 | 0 | 11 | 1 | 13 |
| Bone & Connective Tissue | 2 | 7 | 3 | 1 | 2 | 0 | 1 | 1 | 11 | 1 | 7 |
| Melanoma of Skin | 8 | 23 | 8 | 1 | 1 | 1 | 3 | 4 | 24 | 4 | 18 |
| Breast | 47 | 139 | 78 | 5 | 17 | 12 | 49 | 9 | 174 | 11 | 125 |
| Cervix Uteri | 9 | 44 | 7 | 0 | 2 | 8 | 1 | 2 | 29 | 3 | 55 |
| Corpus Uteri | 2 | 15 | 6 | 2 | 0 | 4 | 5 | 1 | 13 | 3 | 26 |
| Other Female Genital | 8 | 26 | 9 | 0 | 1 | 3 | 10 | 1 | 14 | 4 | 21 |
| Prostate | 28 | 100 | 79 | 5 | 5 | 15 | 35 | 11 | 136 | 13 | 104 |
| Other Male Genital | 0 | 5 | 7 | 0 | 1 | 2 | 2 | 3 | 7 | 2 | 5 |
| Urinary Bladder | 14 | 46 | 15 | 1 | 3 | 10 | 10 | 2 | 50 | 2 | 32 |
| Kidney & Other Urinary | 6 | 26 | 18 | 1 | 1 | 1 | 11 | 0 | 13 | 3 | 25 |
| Eye, Brain & Other Nervous System | 0 | 16 | 9 | 0 | 0 | 1 | 2 | 0 | 15 | 1 | 12 |
| Lymph Nodes | 10 | 24 | 11 | 0 | 1 | 8 | 11 | 3 | 30 | 1 | 19 |
| Leukemia | 5 | 25 | 9 | 1 | 4 | 2 | 11 | 0 | 22 | 3 | 20 |
| All Others | 9 | 33 | 19 | 1 | 4 | 5 | 9 | 4 | 42 | 4 | 38 |
| All Reportable Sites | 234 | 799 | 409 | 35 | 72 | 120 | 248 | 73 | 953 | 78 | 803 |

Table A. Number of *In Situ/Invasive Combined* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Rusk | St. Croix | Sauk | Sawyer | Shawano | Sheboygan | Taylor | Trempealeau | Vernon | Vilas | Walworth |
|-----------------------------------|------|-----------|------|--------|---------|-----------|--------|-------------|--------|-------|----------|
| Mouth and Pharynx | 0 | 0 | 8 | 3 | 7 | 7 | 1 | 2 | 4 | 5 | 10 |
| Stomach | 1 | 1 | 3 | 4 | 1 | 10 | 2 | 0 | 1 | 2 | 10 |
| Colorectal | 12 | 28 | 49 | 16 | 30 | 94 | 10 | 34 | 39 | 17 | 50 |
| Pancreas | 0 | 4 | 8 | 3 | 8 | 18 | 0 | 6 | 0 | 1 | 13 |
| Other Gastrointestinal Tract | 3 | 4 | 11 | 6 | 7 | 14 | 6 | 3 | 3 | 2 | 10 |
| Trachea, Bronchus & Lung | 5 | 12 | 29 | 12 | 28 | 74 | 14 | 12 | 21 | 27 | 62 |
| Other Respiratory | 1 | 1 | 1 | 4 | 1 | 8 | 1 | 0 | 3 | 1 | 6 |
| Bone & Connective Tissue | 2 | 2 | 1 | 0 | 4 | 7 | 0 | 3 | 1 | 1 | 5 |
| Melanoma of Skin | 1 | 2 | 7 | 1 | 3 | 23 | 3 | 5 | 4 | 2 | 11 |
| Breast | 19 | 24 | 42 | 17 | 37 | 112 | 14 | 29 | 31 | 38 | 68 |
| Cervix Uteri | 1 | 9 | 8 | 4 | 6 | 35 | 1 | 5 | 8 | 6 | 14 |
| Corpus Uteri | 3 | 5 | 0 | 1 | 11 | 12 | 4 | 9 | 6 | 6 | 10 |
| Other Female Genital | 4 | 8 | 10 | 3 | 5 | 19 | 1 | 6 | 3 | 6 | 9 |
| Prostate | 11 | 8 | 35 | 17 | 35 | 111 | 17 | 20 | 29 | 21 | 60 |
| Other Male Genital | 1 | 2 | 0 | 0 | 2 | 11 | 1 | 0 | 1 | 0 | 5 |
| Urinary Bladder | 9 | 4 | 8 | 4 | 16 | 29 | 3 | 5 | 14 | 13 | 32 |
| Kidney & Other Urinary | 2 | 5 | 8 | 3 | 6 | 14 | 3 | 3 | 9 | 1 | 9 |
| Eye, Brain & Other Nervous System | 0 | 2 | 5 | 1 | 4 | 8 | 1 | 0 | 1 | 0 | 7 |
| Lymph Nodes | 3 | 6 | 6 | 5 | 11 | 12 | 2 | 2 | 3 | 3 | 11 |
| Leukemia | 3 | 5 | 2 | 3 | 6 | 25 | 7 | 2 | 9 | 8 | 19 |
| All Others | 4 | 8 | 11 | 1 | 5 | 28 | 5 | 10 | 12 | 7 | 23 |
| All Reportable Sites | 85 | 140 | 252 | 108 | 233 | 671 | 96 | 156 | 202 | 167 | 444 |

Table A. Number of *In Situ/Invasive Combined* Cancer Cases by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Washburn | Washington | Waukesha | Waupaca | Waushara | Winnebago | Wood |
|-----------------------------------|----------|------------|----------|---------|----------|-----------|------|
| Mouth and Pharynx | 5 | 15 | 36 | 5 | 7 | 20 | 12 |
| Stomach | 1 | 4 | 34 | 3 | 3 | 16 | 6 |
| Colorectal | 16 | 85 | 215 | 42 | 23 | 112 | 55 |
| Pancreas | 3 | 9 | 58 | 4 | 2 | 23 | 6 |
| Other Gastrointestinal Tract | 3 | 12 | 58 | 5 | 5 | 16 | 17 |
| Trachea, Bronchus & Lung | 19 | 61 | 197 | 33 | 21 | 102 | 54 |
| Other Respiratory | 1 | 3 | 22 | 5 | 2 | 13 | 7 |
| Bone & Connective Tissue | 0 | 1 | 14 | 4 | 1 | 4 | 2 |
| Melanoma of Skin | 1 | 9 | 87 | 8 | 3 | 26 | 22 |
| Breast | 13 | 114 | 365 | 52 | 19 | 132 | 77 |
| Cervix Uteri | 0 | 7 | 24 | 8 | 3 | 58 | 17 |
| Corpus Uteri | 2 | 7 | 42 | 12 | 4 | 16 | 15 |
| Other Female Genital | 3 | 9 | 29 | 5 | 2 | 21 | 15 |
| Prostate | 10 | 80 | 310 | 45 | 14 | 109 | 72 |
| Other Male Genital | 0 | 6 | 19 | 1 | 0 | 8 | 7 |
| Urinary Bladder | 6 | 20 | 91 | 11 | 10 | 50 | 23 |
| Kidney & Other Urinary | 4 | 19 | 57 | 10 | 0 | 24 | 14 |
| Eye, Brain & Other Nervous System | 0 | 7 | 29 | 4 | 2 | 15 | 9 |
| Lymph Nodes | 1 | 17 | 65 | 7 | 5 | 26 | 12 |
| Leukemia | 3 | 15 | 35 | 8 | 1 | 23 | 14 |
| All Others | 5 | 24 | 86 | 14 | 5 | 41 | 14 |
| All Reportable Sites | 96 | 524 | 1,873 | 286 | 132 | 855 | 470 |

Note: See Technical Notes on pages 53-55 for the individual sites in each site group.

Table B. Number of *In Situ/Invasive Combined* Cancer Cases for Large Cities and their Surrounding Counties by Major Site Group, Wisconsin, 1999

| | MAJOR SITE GROUP TY Colo- Other Female Male Urinary Leukemia & | | | | | | | | | |
|----------------|--|-------|-------------|--------|---------|---------|---------|-------------|-------|-------|
| COUNTY | Colo- | Other | | | Female | Male | Urinary | Leukemia & | | |
| Major City | Rectal | GI | Respiratory | Breast | Genital | Genital | Tract | Lymph Nodes | Other | Total |
| BROWN | 126 | 76 | 114 | 168 | 95 | 169 | 73 | 54 | 94 | 969 |
| Green Bay | 99 | 55 | 93 | 146 | 73 | 130 | 60 | 38 | 66 | 760 |
| Rest of County | 27 | 21 | 21 | 22 | 22 | 39 | 13 | 16 | 28 | 209 |
| DANE | 214 | 137 | 228 | 318 | 176 | 268 | 99 | 110 | 199 | 1,749 |
| Madison | 141 | 84 | 158 | 220 | 123 | 170 | 61 | 71 | 133 | 1,161 |
| Rest of County | 73 | 53 | 70 | 98 | 53 | 98 | 38 | 39 | 66 | 588 |
| EAU CLAIRE | 66 | 24 | 36 | 59 | 15 | 58 | 34 | 12 | 29 | 333 |
| Eau Claire | 51 | 20 | 31 | 46 | 11 | 42 | 25 | 11 | 20 | 257 |
| Rest of County | 15 | 4 | 5 | 13 | 4 | 16 | 9 | 1 | 9 | 76 |
| KENOSHA | 74 | 56 | 117 | 117 | 52 | 82 | 41 | 39 | 58 | 636 |
| Kenosha | 57 | 44 | 85 | 89 | 34 | 66 | 31 | 30 | 40 | 476 |
| Rest of County | 17 | 12 | 32 | 28 | 18 | 16 | 10 | 9 | 18 | 160 |
| LA CROSSE | 65 | 41 | 63 | 102 | 65 | 67 | 44 | 32 | 72 | 551 |
| La Crosse | 51 | 35 | 46 | 70 | 38 | 42 | 32 | 23 | 58 | 385 |
| Rest of County | 14 | 6 | 17 | 32 | 27 | 25 | 12 | 9 | 24 | 166 |
| MILWAUKEE | 527 | 506 | 706 | 821 | 335 | 689 | 310 | 219 | 430 | 4,543 |
| Milwaukee | 398 | 370 | 518 | 601 | 255 | 525 | 210 | 165 | 280 | 3,322 |
| Wauwatosa | 32 | 27 | 35 | 54 | 17 | 35 | 8 | 17 | 35 | 260 |
| West Allis | 33 | 41 | 55 | 76 | 20 | 54 | 35 | 12 | 39 | 365 |
| Rest of County | 64 | 68 | 98 | 90 | 43 | 75 | 57 | 25 | 76 | 596 |
| OUTAGAMIE | 83 | 77 | 110 | 139 | 85 | 105 | 72 | 49 | 79 | 799 |
| Appleton | 34 | 46 | 61 | 72 | 52 | 50 | 43 | 33 | 47 | 438 |
| Rest of County | 49 | 31 | 49 | 67 | 33 | 55 | 29 | 16 | 32 | 361 |
| RACINE | 139 | 96 | 138 | 174 | 56 | 143 | 63 | 52 | 92 | 953 |
| Racine | 100 | 61 | 94 | 122 | 34 | 107 | 47 | 37 | 66 | 668 |
| Rest of County | 39 | 35 | 44 | 52 | 22 | 36 | 16 | 15 | 26 | 285 |
| ROCK | 98 | 70 | 128 | 125 | 102 | 109 | 57 | 39 | 75 | 803 |
| Janesville | 55 | 37 | 64 | 63 | 55 | 59 | 26 | 20 | 31 | 410 |
| Rest of County | 43 | 33 | 64 | 62 | 47 | 50 | 31 | 19 | 44 | 393 |
| SHEBOYGAN | 94 | 49 | 82 | 112 | 66 | 122 | 43 | 37 | 66 | 671 |
| Sheboygan | 51 | 35 | 50 | 61 | 32 | 74 | 24 | 19 | 32 | 378 |
| Rest of County | 43 | 14 | 32 | 51 | 34 | 48 | 19 | 18 | 34 | 293 |
| WAUKESHA | 215 | 186 | 219 | 365 | 95 | 329 | 148 | 100 | 216 | 1,873 |
| Waukesha | 73 | 55 | 66 | 107 | 27 | 92 | 55 | 32 | 68 | 575 |
| Rest of County | 142 | 131 | 153 | 258 | 68 | 237 | 93 | 68 | 148 | 1,298 |
| WINNEBAGO | 112 | 75 | 115 | 132 | 95 | 117 | 74 | 49 | 86 | 855 |
| Oshkosh | 73 | 41 | 66 | 62 | 53 | 59 | 40 | 24 | 45 | 463 |
| Rest of County | 39 | 34 | 49 | 70 | 42 | 58 | 34 | 25 | 41 | 392 |

Notes: See Technical Notes on pages 53-55 for individual sites included in each major site group, and page 47 for how city residence was determined. Cities selected for this table are those with an estimated population of at least 50,000. In this table, the major site group "Other Gastrointestinal Tract" includes the site group "Mouth and Pharynx."

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999

| Primary Site | Total | Adams | Ashland | Barron | Bayfield | Brown | Buffalo | Burnett | Calumet | Chippewa | Clark |
|-----------------------------------|--------|-------|---------|--------|----------|-------|---------|---------|---------|----------|-------|
| Mouth and Pharynx | 142 | 0 | 1 | 1 | 0 | 4 | 2 | 2 | 1 | 1 | 1 |
| Stomach | 203 | 0 | 2 | 4 | 0 | 11 | 1 | 1 | 1 | 4 | 0 |
| Colorectal | 1,169 | 8 | 2 | 6 | 4 | 25 | 4 | 3 | 4 | 12 | 6 |
| Pancreas | 576 | 2 | 1 | 2 | 0 | 20 | 4 | 1 | 5 | 5 | 2 |
| Other Gastrointestinal Tract | 625 | 5 | 3 | 3 | 3 | 26 | 1 | 3 | 5 | 8 | 2 |
| Trachea, Bronchus & Lung | 2,642 | 22 | 9 | 30 | 14 | 85 | 12 | 17 | 15 | 36 | 6 |
| Other Respiratory | 94 | 0 | 0 | 2 | 1 | 2 | 0 | 1 | 0 | 1 | 0 |
| Bone & Connective Tissue | 108 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 2 | 1 | 0 |
| Melanoma of Skin | 142 | 0 | 1 | 2 | 0 | 5 | 0 | 0 | 2 | 2 | 1 |
| Breast | 834 | 5 | 3 | 5 | 5 | 33 | 1 | 4 | 8 | 15 | 8 |
| Cervix Uteri | 67 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 1 | 0 |
| Corpus Uteri | 73 | 0 | 1 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| Other Female Genital | 359 | 1 | 0 | 3 | 2 | 18 | 0 | 0 | 4 | 7 | 1 |
| Prostate | 681 | 1 | 2 | 9 | 3 | 19 | 5 | 3 | 5 | 4 | 5 |
| Other Male Genital | 13 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Urinary Bladder | 241 | 3 | 0 | 3 | 1 | 13 | 1 | 1 | 0 | 1 | 4 |
| Kidney & Other Urinary | 262 | 0 | 3 | 0 | 3 | 8 | 0 | 0 | 3 | 1 | 1 |
| Eye, Brain & Other Nervous System | 257 | 2 | 0 | 5 | 0 | 11 | 2 | 0 | 1 | 3 | 2 |
| Lymph Nodes | 541 | 2 | 1 | 8 | 0 | 25 | 1 | 4 | 3 | 6 | 5 |
| Leukemia | 469 | 1 | 0 | 7 | 0 | 14 | 2 | 0 | 4 | 4 | 4 |
| All Others | 1,233 | 4 | 2 | 13 | 8 | 40 | 4 | 9 | 10 | 11 | 6 |
| Total Cancer Deaths | 10,731 | 57 | 31 | 107 | 46 | 372 | 40 | 49 | 73 | 123 | 54 |

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Columbia | Crawford | Dane | Dodge | Door | Douglas | Dunn | Eau Claire | Florence | Fond du Lac | Forest |
|-----------------------------------|----------|----------|------|-------|------|---------|------|------------|----------|-------------|--------|
| Mouth and Pharynx | 2 | 1 | 4 | 5 | 1 | 3 | 1 | 2 | 0 | 4 | 0 |
| Stomach | 3 | 0 | 9 | 6 | 0 | 3 | 1 | 1 | 0 | 3 | 0 |
| Colorectal | 10 | 1 | 68 | 25 | 9 | 20 | 4 | 30 | 1 | 30 | 3 |
| Pancreas | 6 | 3 | 35 | 13 | 2 | 7 | 1 | 6 | 0 | 10 | 1 |
| Other Gastrointestinal Tract | 7 | 1 | 29 | 12 | 4 | 5 | 1 | 6 | 1 | 10 | 2 |
| Trachea, Bronchus & Lung | 24 | 12 | 135 | 35 | 12 | 27 | 14 | 31 | 5 | 44 | 11 |
| Other Respiratory | 1 | 1 | 5 | 2 | 0 | 3 | 0 | 0 | 0 | 2 | 1 |
| Bone & Connective Tissue | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 6 | 0 |
| Melanoma of Skin | 2 | 0 | 8 | 2 | 2 | 0 | 1 | 0 | 0 | 5 | 0 |
| Breast | 12 | 6 | 50 | 10 | 4 | 10 | 5 | 12 | 2 | 16 | 1 |
| Cervix Uteri | 0 | 0 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 0 |
| Corpus Uteri | 3 | 0 | 3 | 1 | 1 | 0 | 2 | 1 | 0 | 2 | 0 |
| Other Female Genital | 4 | 0 | 22 | 7 | 3 | 9 | 3 | 5 | 3 | 3 | 1 |
| Prostate | 6 | 3 | 39 | 12 | 6 | 9 | 6 | 14 | 0 | 14 | 2 |
| Other Male Genital | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Urinary Bladder | 1 | 2 | 17 | 3 | 0 | 3 | 3 | 5 | 1 | 7 | 0 |
| Kidney & Other Urinary | 3 | 0 | 6 | 6 | 0 | 3 | 2 | 7 | 0 | 2 | 0 |
| Eye, Brain & Other Nervous System | 4 | 0 | 20 | 4 | 2 | 3 | 1 | 3 | 0 | 6 | 1 |
| Lymph Nodes | 9 | 2 | 38 | 12 | 1 | 3 | 0 | 5 | 0 | 10 | 2 |
| Leukemia | 8 | 2 | 35 | 11 | 2 | 3 | 0 | 9 | 0 | 9 | 0 |
| All Others | 22 | 7 | 71 | 15 | 16 | 15 | 8 | 23 | 1 | 18 | 3 |
| Total Cancer Deaths | 129 | 41 | 609 | 181 | 67 | 128 | 53 | 162 | 14 | 202 | 28 |

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| | Grant | Green | Green Lake | lowa | Iron | Jackson | Jefferson | Juneau | Kenosha | Kewaunee | La Crosse |
|-----------------------------------|-------|-------|------------|------|----------|---------|-----------|--------|---------|----------|-----------|
| Primary Site | Ō | ō | פֿ | | <u> </u> | Ja | | ٦٢ | | χ e | |
| Mouth and Pharynx | 1 | 0 | 1 | 3 | 1 | 0 | 1 | 0 | 3 | 3 | 3 |
| Stomach | 0 | 0 | 4 | 1 | 0 | 2 | 3 | 3 | 8 | 4 | 4 |
| Colorectal | 10 | 12 | 6 | 7 | 4 | 7 | 18 | 12 | 33 | 3 | 20 |
| Pancreas | 7 | 6 | 1 | 2 | 0 | 3 | 6 | 1 | 14 | 6 | 9 |
| Other Gastrointestinal Tract | 6 | 4 | 5 | 0 | 1 | 1 | 5 | 4 | 16 | 1 | 11 |
| Trachea, Bronchus & Lung | 21 | 11 | 18 | 8 | 3 | 8 | 41 | 28 | 89 | 6 | 53 |
| Other Respiratory | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 1 |
| Bone & Connective Tissue | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 4 |
| Melanoma of Skin | 1 | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 4 | 2 | 3 |
| Breast | 5 | 9 | 4 | 7 | 0 | 3 | 11 | 6 | 17 | 7 | 15 |
| Cervix Uteri | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 0 | 2 |
| Corpus Uteri | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| Other Female Genital | 5 | 0 | 1 | 4 | 0 | 3 | 7 | 2 | 4 | 1 | 7 |
| Prostate | 12 | 5 | 7 | 4 | 0 | 3 | 6 | 10 | 13 | 3 | 11 |
| Other Male Genital | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Urinary Bladder | 4 | 2 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 0 | 4 |
| Kidney & Other Urinary | 4 | 3 | 0 | 1 | 0 | 2 | 5 | 2 | 8 | 1 | 3 |
| Eye, Brain & Other Nervous System | 6 | 3 | 1 | 1 | 0 | 2 | 2 | 0 | 5 | 0 | 8 |
| Lymph Nodes | 5 | 2 | 1 | 1 | 1 | 3 | 8 | 6 | 17 | 5 | 7 |
| Leukemia | 5 | 1 | 1 | 3 | 1 | 2 | 4 | 3 | 11 | 3 | 18 |
| All Others | 10 | 4 | 8 | 5 | 2 | 4 | 17 | 8 | 21 | 6 | 22 |
| Total Cancer Deaths | 107 | 66 | 60 | 49 | 15 | 44 | 146 | 90 | 272 | 52 | 205 |

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Lafayette | Langlade | Lincoln | Manitowoc | Marathon | Marinette | Marquette | Menominee | Milwaukee | Monroe | Oconto |
|-----------------------------------|-----------|----------|---------|-----------|----------|-----------|-----------|-----------|-----------|--------|--------|
| Mouth and Pharynx | 2 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 24 | 0 | 5 |
| Stomach | 0 | 1 | 2 | 1 | 2 | 1 | 2 | 0 | 43 | 0 | 1 |
| Colorectal | 6 | 8 | 4 | 18 | 21 | 9 | 4 | 2 | 208 | 4 | 11 |
| Pancreas | 4 | 3 | 5 | 10 | 16 | 4 | 2 | 0 | 96 | 4 | 3 |
| Other Gastrointestinal Tract | 2 | 2 | 7 | 13 | 15 | 7 | 1 | 0 | 136 | 3 | 3 |
| Trachea, Bronchus & Lung | 7 | 7 | 19 | 48 | 50 | 31 | 10 | 1 | 542 | 16 | 33 |
| Other Respiratory | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 25 | 3 | 1 |
| Bone & Connective Tissue | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 18 | 2 | 2 |
| Melanoma of Skin | 1 | 1 | 1 | 0 | 5 | 4 | 1 | 0 | 20 | 0 | 2 |
| Breast | 2 | 3 | 5 | 20 | 21 | 5 | 4 | 0 | 159 | 3 | 7 |
| Cervix Uteri | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 8 | 0 | 1 |
| Corpus Uteri | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 18 | 0 | 3 |
| Other Female Genital | 1 | 0 | 5 | 6 | 4 | 1 | 2 | 0 | 63 | 3 | 2 |
| Prostate | 0 | 4 | 5 | 15 | 15 | 12 | 3 | 0 | 106 | 7 | 5 |
| Other Male Genital | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 |
| Urinary Bladder | 2 | 3 | 1 | 3 | 5 | 1 | 0 | 0 | 46 | 3 | 3 |
| Kidney & Other Urinary | 2 | 1 | 1 | 4 | 11 | 5 | 0 | 1 | 53 | 1 | 2 |
| Eye, Brain & Other Nervous System | 2 | 2 | 0 | 4 | 2 | 5 | 3 | 0 | 46 | 2 | 2 |
| Lymph Nodes | 1 | 5 | 3 | 14 | 14 | 10 | 1 | 0 | 90 | 7 | 5 |
| Leukemia | 1 | 1 | 4 | 7 | 9 | 5 | 2 | 0 | 84 | 5 | 2 |
| All Others | 7 | 7 | 9 | 25 | 29 | 11 | 5 | 0 | 213 | 9 | 12 |
| Total Cancer Deaths | 40 | 51 | 73 | 196 | 225 | 115 | 42 | 5 | 2,000 | 72 | 105 |

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Oneida | Outagamie | Ozaukee | Pepin | Pierce | Polk | Portage | Price | Racine | Richland | Rock |
|-----------------------------------|--------|-----------|---------|-------|--------|------|---------|-------|--------|----------|------|
| Mouth and Pharynx | 0 | 2 | 4 | 1 | 0 | 1 | 5 | 0 | 6 | 0 | 4 |
| Stomach | 2 | 5 | 5 | 0 | 0 | 1 | 1 | 1 | 13 | 0 | 3 |
| Colorectal | 13 | 30 | 22 | 2 | 6 | 9 | 18 | 4 | 40 | 7 | 33 |
| Pancreas | 4 | 13 | 12 | 0 | 4 | 7 | 7 | 2 | 19 | 2 | 16 |
| Other Gastrointestinal Tract | 9 | 13 | 10 | 1 | 4 | 4 | 10 | 3 | 22 | 6 | 13 |
| Trachea, Bronchus & Lung | 21 | 68 | 37 | 3 | 10 | 19 | 28 | 11 | 99 | 9 | 79 |
| Other Respiratory | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 2 |
| Bone & Connective Tissue | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Melanoma of Skin | 4 | 5 | 3 | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 3 |
| Breast | 6 | 14 | 13 | 1 | 4 | 5 | 12 | 2 | 25 | 0 | 19 |
| Cervix Uteri | 0 | 4 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 |
| Corpus Uteri | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 1 |
| Other Female Genital | 2 | 15 | 2 | 0 | 2 | 2 | 5 | 0 | 12 | 1 | 8 |
| Prostate | 4 | 21 | 8 | 3 | 5 | 4 | 9 | 5 | 18 | 2 | 15 |
| Other Male Genital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Urinary Bladder | 2 | 8 | 3 | 0 | 0 | 2 | 1 | 0 | 13 | 2 | 4 |
| Kidney & Other Urinary | 4 | 5 | 6 | 0 | 1 | 1 | 4 | 2 | 4 | 0 | 8 |
| Eye, Brain & Other Nervous System | 1 | 8 | 3 | 1 | 0 | 2 | 4 | 1 | 6 | 0 | 3 |
| Lymph Nodes | 2 | 13 | 13 | 0 | 2 | 3 | 4 | 1 | 20 | 2 | 14 |
| Leukemia | 4 | 11 | 10 | 0 | 4 | 4 | 4 | 2 | 11 | 3 | 8 |
| All Others | 11 | 34 | 18 | 3 | 6 | 11 | 13 | 2 | 58 | 8 | 28 |
| Total Cancer Deaths | 89 | 271 | 173 | 17 | 50 | 78 | 126 | 36 | 376 | 45 | 267 |

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999 (Continued)

| Primary Site | Rusk | St. Croix | Sauk | Sawyer | Shawano | Sheboygan | Taylor | Trempealeau | Vernon | Vilas | Walworth |
|-----------------------------------|------|-----------|------|--------|---------|-----------|--------|-------------|--------|-------|----------|
| Mouth and Pharynx | 0 | 1 | 1 | 1 | 1 | 4 | 1 | 0 | 1 | 0 | 3 |
| Stomach | 1 | 1 | 0 | 0 | 3 | 7 | 0 | 1 | 0 | 3 | 2 |
| Colorectal | 3 | 9 | 9 | 6 | 10 | 29 | 5 | 12 | 14 | 6 | 26 |
| Pancreas | 2 | 4 | 4 | 2 | 3 | 14 | 3 | 6 | 6 | 1 | 12 |
| Other Gastrointestinal Tract | 3 | 1 | 6 | 2 | 3 | 8 | 4 | 5 | 1 | 1 | 11 |
| Trachea, Bronchus & Lung | 9 | 19 | 20 | 13 | 27 | 48 | 10 | 9 | 14 | 23 | 41 |
| Other Respiratory | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 |
| Bone & Connective Tissue | 1 | 2 | 1 | 0 | 2 | 4 | 0 | 2 | 0 | 2 | 2 |
| Melanoma of Skin | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 2 |
| Breast | 3 | 8 | 9 | 2 | 6 | 24 | 1 | 1 | 8 | 5 | 15 |
| Cervix Uteri | 0 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 2 |
| Corpus Uteri | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| Other Female Genital | 3 | 7 | 3 | 1 | 5 | 11 | 0 | 4 | 0 | 1 | 11 |
| Prostate | 5 | 6 | 13 | 1 | 9 | 9 | 3 | 6 | 6 | 3 | 7 |
| Other Male Genital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Urinary Bladder | 2 | 1 | 0 | 1 | 2 | 1 | 3 | 3 | 2 | 1 | 3 |
| Kidney & Other Urinary | 2 | 4 | 1 | 1 | 2 | 5 | 1 | 0 | 4 | 1 | 5 |
| Eye, Brain & Other Nervous System | 0 | 2 | 0 | 1 | 1 | 8 | 1 | 0 | 0 | 3 | 5 |
| Lymph Nodes | 3 | 6 | 3 | 4 | 8 | 6 | 1 | 3 | 4 | 1 | 7 |
| Leukemia | 2 | 4 | 7 | 0 | 4 | 8 | 2 | 2 | 3 | 2 | 9 |
| All Others | 4 | 11 | 15 | 1 | 10 | 27 | 6 | 11 | 11 | 10 | 14 |
| Total Cancer Deaths | 43 | 88 | 96 | 36 | 100 | 219 | 42 | 67 | 75 | 63 | 180 |

Table C. Number of Cancer Deaths by Site Group and County of Residence, Wisconsin, 1999

| Primary Site | Washburn | Washington | Waukesha | Waupaca | Waushara | Winnebago | Wood |
|-----------------------------------|----------|------------|----------|---------|----------|-----------|------|
| Mouth and Pharynx | 1 | 2 | 6 | 0 | 0 | 4 | 3 |
| Stomach | 1 | 2 | 12 | 0 | 0 | 5 | 2 |
| Colorectal | 11 | 17 | 70 | 11 | 4 | 30 | 11 |
| Pancreas | 2 | 12 | 56 | 5 | 2 | 21 | 7 |
| Other Gastrointestinal Tract | 2 | 10 | 41 | 7 | 4 | 27 | 14 |
| Trachea, Bronchus & Lung | 14 | 46 | 159 | 35 | 15 | 71 | 39 |
| Other Respiratory | 1 | 1 | 6 | 3 | 2 | 1 | 3 |
| Bone & Connective Tissue | 0 | 2 | 8 | 4 | 1 | 2 | 2 |
| Melanoma of Skin | 0 | 5 | 13 | 2 | 2 | 5 | 1 |
| Breast | 1 | 12 | 55 | 10 | 6 | 25 | 14 |
| Cervix Uteri | 0 | 1 | 4 | 2 | 0 | 3 | 1 |
| Corpus Uteri | 0 | 0 | 7 | 1 | 1 | 1 | 0 |
| Other Female Genital | 3 | 6 | 17 | 2 | 1 | 12 | 6 |
| Prostate | 4 | 18 | 38 | 8 | 5 | 16 | 17 |
| Other Male Genital | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Urinary Bladder | 2 | 7 | 18 | 2 | 2 | 3 | 0 |
| Kidney & Other Urinary | 2 | 6 | 16 | 3 | 3 | 8 | 5 |
| Eye, Brain & Other Nervous System | 1 | 4 | 20 | 2 | 1 | 12 | 1 |
| Lymph Nodes | 4 | 8 | 25 | 12 | 3 | 16 | 10 |
| Leukemia | 5 | 9 | 32 | 4 | 2 | 18 | 8 |
| All Others | 5 | 14 | 79 | 21 | 9 | 39 | 14 |
| Total Cancer Deaths | 59 | 182 | 683 | 134 | 63 | 319 | 158 |

Table D. Number and Percent of *In Situ/Invasive Combined* Cancer Cases by Individual Primary Site and Sex, Wisconsin, 1999

| Tongue | | 3.5.1.7 | - | DD1.6 | 4.T.E. | TO IT | |
|--|-----------------------------------|-------------|------|--------|--------|-------|------------|
| Lip | DDIMADY CITE (| | | | | | |
| Tongue | | - | | | | | % |
| Major Salivary Glands | | | | | | | 0.2 |
| Gum | | | | | | | 0.6 |
| Floor of Mouth Other & Unspecified Parts of Mouth Other & Unspecified Female Genital Organs | · · | | | | | | 0.3 0.1 |
| Other & Unspecified Parts of Mouth 44 0.3 22 0.2 66 0 Oropharynx 19 0.1 12 0.1 31 0 Nasopharynx 63 0.5 13 0.1 76 0 Other Sites in Lip, Oral Cavity & Pharynx 11 0.1 6 0.0 17 6 Stomach 227 1.8 72 0.6 299 5 Stomach 244 1.9 126 1.0 370 5 Small Intestine 63 0.5 40 0.3 103 6 Colon 1,216 9.6 1,161 8.9 2,377 2 Rectum, Rectosigmoid Junction & Anus 554 4.4 385 3.0 939 3 Liver & Intrahepatic Bile Duct 132 0.4 63 0.5 195 6 Gallbladder & Extrahepatic Bile Duct 46 2.2 89 0.7 135 6 Gallbladder & Extrahepatic Bile D | | | | | | | |
| Oropharynx 82 0.6 29 0.2 111 0 Nasopharynx 19 0.1 12 0.1 31 0.1 76 0 Other Sites in Lip, Oral Cavity & Pharynx 11 0.1 6 0.0 17 0 0 Esophagus 227 1.8 72 0.6 299 1 Stomach 244 1.9 126 1.0 370 103 0 Small Intestine 63 0.5 4.0 0.3 103 0 0 0 103 0 0 0 103 0 0 0 103 0 | | | | | | | 0.2 0.3 |
| Nasopharynx | - | | | | | | |
| Hypopharynx | | | | | | | 0.4 |
| Other Sites in Lip, Oral Cavity & Pharynx 11 0.1 6 0.0 17 6 Esophagus 227 1.8 72 0.6 299 1 Stomach 244 1.9 126 1.0 370 1 Small Intestine 63 0.5 40 0.3 103 0 Colon 1,216 9.6 1,161 8.9 2,377 9 Rectum, Rectosigmoid Junction & Anus 554 4.4 385 3.0 939 3 Liver & Intrahepatic Bile Duct 132 0.4 63 0.5 195 0 Gallbladder & Extrahepatic Bile Duct 46 2.2 89 0.7 135 0 Pancreas 278 0.1 300 2.3 578 2 Retroperitoneum & Peritoneum 14 0.8 22 0.2 36 0 Other Within Digestive Organs & Peritoneum 3 0.0 6 0.0 9 0 Larynx </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.1</td> | | | | | | | 0.1 |
| Esophagus 227 1.8 72 0.6 299 150 | | | | | | | 0.3 |
| Stomach 244 1.9 126 1.0 370 156 1.0 Small Intestine 63 0.5 40 0.3 103 0.5 0. | | | | | | | 0.1 1.2 |
| Small Intestine 63 0.5 40 0.3 103 Colon Colon 1,216 9.6 1,161 8.9 2,377 9 Rectum, Rectosigmoid Junction & Anus 554 4.4 385 3.0 939 3 Liver & Intrahepatic Bile Duct 132 0.4 63 0.5 195 0 Gallbladder & Extrahepatic Bile Duct 46 2.2 89 0.7 135 0 Pancreas 278 0.1 300 2.3 578 2 Retroperitoneum & Peritoneum 14 0.8 22 0.2 36 0 Other Within Digestive Organs & Peritoneum 3 0.0 6 0.0 9 0 Masal Cavities & Sinuses, Internal Ear 24 0.2 27 0.2 51 0 Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 | | | | | | | 1.4 |
| Colon 1,216 9.6 1,161 8.9 2,377 9.6 | | | | | | | 0.4 |
| Rectum, Rectosigmoid Junction & Anus 554 4.4 385 3.0 939 3 Liver & Intrahepatic Bile Duct 132 0.4 63 0.5 195 0 Gallbladder & Extrahepatic Bile Duct 46 2.2 89 0.7 135 0 Pancreas 278 0.1 300 2.3 578 3 Retroperitoneum & Peritoneum 14 0.8 22 0.2 36 0 Other Within Digestive Organs & Peritoneum 3 0.0 6 0.0 9 0 Nasal Cavities & Sinuses, Internal Ear 24 0.2 27 0.2 51 0 Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9.2</td> | | | | | | | 9.2 |
| Liver & Intrahepatic Bile Duct 132 | | | | | | | |
| Gallbladder & Extrahepatic Bile Duct 46 2.2 89 0.7 135 0 Pancreas 278 0.1 300 2.3 578 2 Retroperitoneum & Peritoneum 14 0.8 22 0.2 36 0 Other Within Digestive Organs & Peritoneum 3 0.0 6 0.0 9 0 Nasal Cavities & Sinuses, Internal Ear 24 0.2 27 0.2 51 0 Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 0 1 0.1 3,195 12 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 0 1 0.0 1 0.0 1 0 0 1 0.0 1 0.0 1 0 0 | | | | | | | 3.6 0.8 |
| Pancreas 278 0.1 300 2.3 578 278 | | | | | | | 0.8 |
| Retroperitoneum & Peritoneum 14 0.8 22 0.2 36 0 Other Within Digestive Organs & Peritoneum 3 0.0 6 0.0 9 0 Nasal Cavities & Sinuses, Internal Ear 24 0.2 27 0.2 51 0 Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>2.2</td></t<> | | | | | | | 2.2 |
| Other Within Digestive Organs & Peritoneum 3 0.0 6 0.0 9 0 Nasal Cavities & Sinuses, Internal Ear 24 0.2 27 0.2 51 0 Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 | | | | | | | 0.1 |
| Nasal Cavities & Sinuses, Internal Ear 24 0.2 27 0.2 51 0 Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 | | | | | | | 0.0 |
| Larynx 177 1.4 57 0.4 234 0 Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 1 27 0 Hematopoietic & Reticuloendothelial Systems, Except Leukemia 156 1.2 141 1.1 297 1 Bone, Joints & Articular Cartilage 34 0.3 29 0.2 63 0 Connective, Subcutaneous & Other Soft Tissue 74 0.6 83 0.6 157 0 Melanoma of Skin 395 3.1 307 2.4 702 2 Breast 39 0.3 4,501 34.6 4,540 17 Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 5.4 699 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>0.0</td></td<> | | | | | | | 0.0 |
| Trachea, Bronchus & Lung 1,880 14.8 1,315 10.1 3,195 12 Pleura 38 0.3 9 0.1 47 0 Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 1 27 0 Hematopoietic & Reticuloendothelial Systems, Except Leukemia 156 1.2 141 1.1 297 1 Bone, Joints & Articular Cartilage 34 0.3 29 0.2 63 0 Connective, Subcutaneous & Other Soft Tissue 74 0.6 83 0.6 157 0 Melanoma of Skin 395 3.1 307 2.4 702 2 Breast 39 0.3 4,501 34.6 4,540 1 Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 699 5.4 699 2 | | | | | | | 0.2 |
| Pleura 38 0.3 9 0.1 47 0 0 1 15 0.1 12 0.1 27 0 0 0 0 0 0 0 0 0 | • | | | | | | 12.4 |
| Thymus, Heart & Mediastinum 15 0.1 12 0.1 27 0 Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 1 0 Hematopoietic & Reticuloendothelial Systems, Except Leukemia 156 1.2 141 1.1 297 1 Bone, Joints & Articular Cartilage 34 0.3 29 0.2 63 0 Connective, Subcutaneous & Other Soft Tissue 74 0.6 83 0.6 157 0 Melanoma of Skin 395 3.1 307 2.4 702 2 Breast 39 0.3 4,501 34.6 4,540 1 Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 15 | | | | | | | 0.2 |
| Other Respiratory & Intrathoracic Sites 0 0.0 1 0.0 2 2 2 2 63 0< | | | | | | | 0.2 |
| Hematopoietic & Reticuloendothelial Systems, Except Leukemia 156 1.2 141 1.1 297 1298 1299 | | | | | | | 0.0 |
| Bone, Joints & Articular Cartilage 34 0.3 29 0.2 63 0 Connective, Subcutaneous & Other Soft Tissue 74 0.6 83 0.6 157 0 Melanoma of Skin 395 3.1 307 2.4 702 2 Breast 39 0.3 4,501 34.6 4,540 17 Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | | | | | | 1.2 |
| Connective, Subcutaneous & Other Soft Tissue 74 0.6 83 0.6 157 0 Melanoma of Skin 395 3.1 307 2.4 702 2 Breast 39 0.3 4,501 34.6 4,540 17 Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | | | | | | 0.2 |
| Melanoma of Skin 395 3.1 307 2.4 702 2.4 Breast 39 0.3 4,501 34.6 4,540 17 Uterus, NOS - - 35 0.3 35 0.0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | | | | | | 0.2 |
| Breast 39 0.3 4,501 34.6 4,540 17 Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | | | | | | 2.7 |
| Uterus, NOS - - 35 0.3 35 0 Cervix Uteri - - 809 6.2 809 3 Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | | | | | | 17.6 |
| Cervix Uteri - - 809 6.2 809 3 Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | | | | | | 0.1 |
| Placenta - - 3 0.0 3 0 Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | , | _ | | | | | 3.1 |
| Corpus Uteri - - 699 5.4 699 2 Ovary, Fallopian Tube & Broad Ligament - - 400 3.1 400 1 Other & Unspecified Female Genital Organs - - 156 1.2 156 0 | | _ | | | | | 0.0 |
| Ovary, Fallopian Tube & Broad Ligament 400 3.1 400 Other & Unspecified Female Genital Organs - 156 1.2 156 | | _ | | | | | 2.7 |
| Other & Unspecified Female Genital Organs 156 1.2 156 0 | | _ | | | | | 1.6 |
| | | _ | | | | | 0.6 |
| Prostate 3.745 29.41 3.745 14 | Prostate | 3,745 | 29.4 | - | - | 3,745 | 14.6 |
| | | · · · · · · | | _ | _ | , | 0.8 |
| | Penis & Other Male Genital Organs | | | _ | _ | | 0.1 |
| | | | | 313 | 2.4 | | 4.6 |
| | | | | | | , | 2.9 |
| | | | | | | | 0.2 |
| | | | | | | | 1.4 |
| | | | | | | | 0.1 |
| | | | | | | | 1.2 |
| | | | | | | | 0.0 |
| | | | | | | | 2.4 |
| • • | • • | | | | | | 0.6 |
| | | | | | | | 1.1 |
| | • • | | | | | | 1.1 |
| | • | | | | | | 0.3 |
| | | | | | | | 0.5 |
| | | | | | | | 1.7 |
| · · · · · · · · · · · · · · · · · · · | • | | | 13,006 | 100.0 | | 100.0 |

Source: Wisconsin Cancer Reporting System, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table E. Number and Rates of *In Situ/Invasive Combined* Cancer Cases by Site Group and Sex, Rates Age-Adjusted to the 1970 and 2000 Standard Populations, Wisconsin, 1999

| Wisconsin, 1777 | MALE | | | I | FEMAL | Е | TOTAL | | | |
|-----------------------------------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--|
| PRIMARY SITE | | | | | | | | | | |
| | Number | Rate* | Rate** | Number | Rate* | Rate** | Number | Rate* | Rate** | |
| Mouth & Pharynx | 440 | 15.6 | 17.8 | 206 | 6.1 | 6.9 | 646 | 10.5 | 11.9 | |
| Stomach | 244 | 8.5 | 10.3 | 126 | 3.1 | 3.9 | 370 | 5.5 | 6.7 | |
| Colorectal | 1,870 | 61.5 | 74.1 | 1,546 | 39.6 | 48.6 | 3,316 | 49.5 | 59.8 | |
| Pancreas | 278 | 9.7 | 11.5 | 300 | 7.6 | 9.4 | 578 | 8.6 | 10.4 | |
| Other Gastrointestinal Tract | 485 | 16.9 | 20.1 | 292 | 7.7 | 9.3 | 777 | 11.9 | 14.1 | |
| Trachea, Bronchus & Lung | 1,880 | 66.5 | 77.8 | 1,315 | 39.0 | 44.2 | 3,195 | 51.0 | 58.5 | |
| Other Respiratory | 254 | 9.1 | 10.4 | 106 | 3.1 | 3.6 | 360 | 5.9 | 6.6 | |
| Bone & Connective Tissue | 108 | 3.9 | 4.3 | 112 | 3.5 | 3.8 | 220 | 3.7 | 4.1 | |
| Melanoma of Skin | 395 | 13.5 | 15.9 | 307 | 9.4 | 10.9 | 702 | 11.2 | 13.0 | |
| Breast | 39 | 1.3 | 1.6 | 4,501 | 133.7 | 154.9 | 4,540 | 71.4 | 83.6 | |
| Cervix Uteri | - | - | - | 809 | 27.5 | 31.1 | 809 | 13.9 | 15.7 | |
| Corpus Uteri | - | - | - | 699 | 21.5 | 24.2 | 699 | 11.4 | 13.0 | |
| Other Female Genital | - | - | - | 594 | 17.5 | 20.3 | 594 | 9.3 | 10.9 | |
| Prostate | 3,745 | 134.8 | 155.3 | - | - | - | 3,745 | 61.0 | 68.7 | |
| Other Male Genital | 236 | 8.0 | 9.3 | - | - | - | 236 | 3.9 | 4.5 | |
| Urinary Bladder | 860 | 29.5 | 36.4 | 313 | 8.4 | 10.0 | 1,173 | 17.7 | 21.2 | |
| Kidney & Other Urinary | 471 | 16.5 | 19.4 | 278 | 8.1 | 9.3 | 749 | 11.9 | 13.7 | |
| Eye, Brain & Other Nervous System | 216 | 7.8 | 8.6 | 214 | 6.9 | 7.5 | 430 | 7.3 | 8.0 | |
| Lymph Nodes | 434 | 15.1 | 17.7 | 348 | 10.2 | 11.8 | 782 | 12.4 | 14.4 | |
| Leukemia | 359 | 12.8 | 14.8 | 287 | 8.2 | 9.4 | 646 | 10.3 | 11.8 | |
| All Others | 509 | 17.6 | 21.2 | 653 | 18.4 | 21.9 | 1,162 | 17.8 | 21.2 | |
| All Reportable Sites | 12,723 | 448.5 | 526.6 | 13,006 | 379.6 | 441.0 | 25,729 | 406.0 | 471.9 | |

Notes: Male rates are cases per 100,000 male residents, female rates are cases per 100,000 female residents, and total rates are cases per 100,000 residents.

Site groups are listed in ICD-O2 numerical code order. See Technical Notes at the end of this report for the individual sites included in each site group.

In this table, rates for cancers with a higher percentage of *in situ* diagnoses (breast, cervical and melanoma of the skin) vary the most from rates shown in Table 2.

^{*} Age-adjusted to the 1970 U.S. standard population.

^{**} Age-adjusted to the 2000 U.S. standard population.